CITY OF BISMARCK

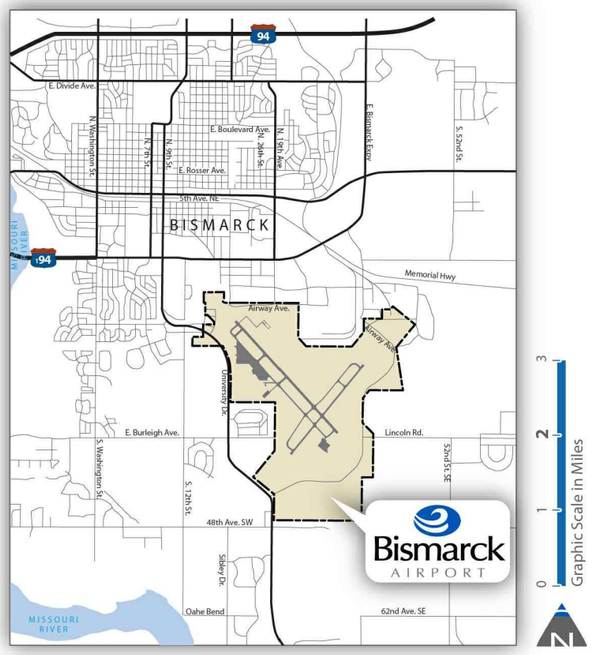
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

AIP# 3-38-003-055-2015

JAN 2019

VICINITY MAP



LOCATION MAP

FAA APPROVAL

SPONSOR APPROVAL	
NAME/TITLE	DATE

NDAC APPROVAL	
NAME/TITLE	DATE

REVISIONS & NOTES		
NO.	DESCRIPTION	DATE
NOTES:		

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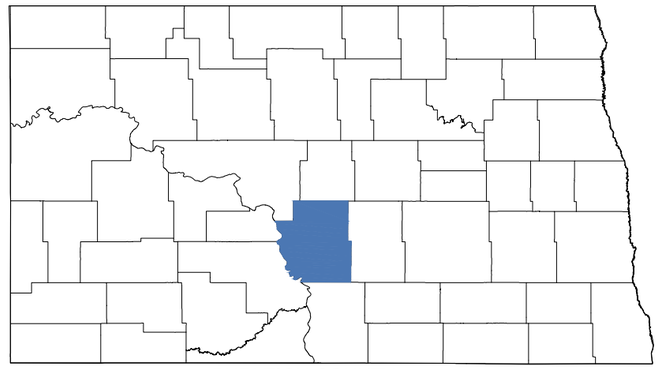

BURLEIGH COUNTY

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Bismarck AIRPORT

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2301 University Dr., Bismarck, ND 58504

ISSUED

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M&H PROJECT:	2716000-140293.01
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DESIGNED BY:	MRB
DRAWN BY:	JWB
CHECKED BY:	MRB

DO NOT SCALE DRAWINGS

SHEET CONTENTS

TITLE SHEET

SHEET NO.

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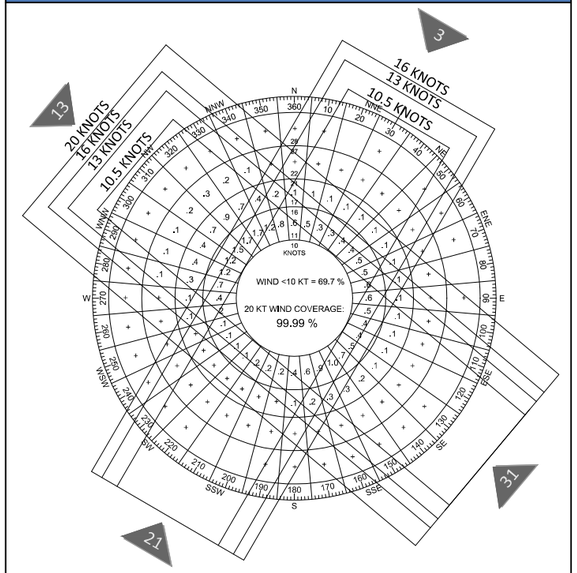
ALL WEATHER WINDROSE

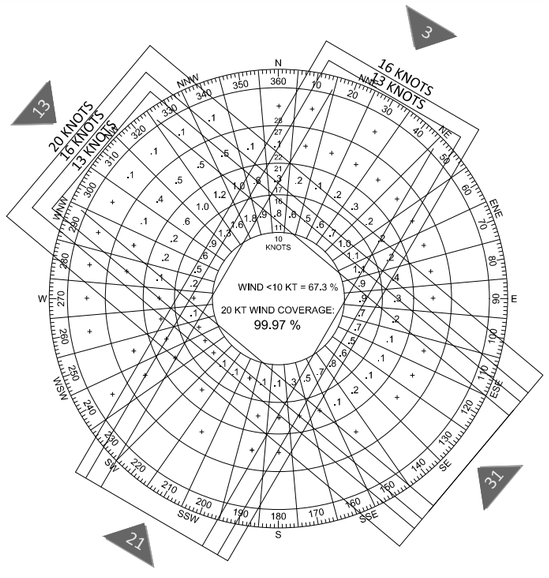


ALL WEATHER WIND COVERAGE

	10.5 Knots	13 Knots	16 Knots	20 Knots
Runway 3-21	79.48%	86.88%	94.15%	98.16%
Runway 13-31	92.85%	96.47%	99.00%	99.78%
Runways Combined	97.86%	99.42%	99.89%	99.99%

SOURCE: NOAA National Climatic Center Asheville, N.C.
DATA STATION: Bismarck Airport Bismarck, North Dakota
OBSERVATIONS: 107,173 Observations 2005 - 2015

IFR WEATHER WINDROSE



IFR CAT-I WIND COVERAGE

	10.5 Knots	13 Knots	16 Knots	20 Knots
Runway 3-21	79.50%	86.46%	93.22%	97.47%
Runway 13-31	89.04%	93.92%	97.91%	99.50%
Runways Combined	96.57%	98.93%	99.84%	99.97%

SOURCE: NOAA National Climatic Center Asheville, N.C.
DATA STATION: Bismarck Airport, Bismarck, North Dakota
OBSERVATIONS: 6,527 Observations 2005 - 2015

RUNWAY DATA

	RUNWAY 13/31				RUNWAY 3/21			
	EXISTING		FUTURE		EXISTING		FUTURE	
	13	31	13	31	3	21	3	21
RUNWAY DESIGN CODE (RDC)	D-III	D-III	SAME	SAME	C-II	C-II	SAME	SAME
APPROACH REFERENCE CODE (APRC)	D-III-4000	D-III-2400	SAME	SAME	C-II-4000	C-II-4000	SAME	SAME
DEPARTURE REFERENCE CODE (DPRC)	D-III	D-III	SAME	SAME	C-II	C-II	SAME	SAME
RUNWAY PAVEMENT TYPE	ASPHALT		CONCRETE		ASPHALT		CONCRETE	
SURFACE TREATMENT	GROOVED		SAME		GROOVED		SAME	
PAVEMENT STRENGTH (IN 1000 LBS.)	130(S)/180(D)/340(DT)		TBD		NO DATA AVAILABLE		TBD	
PAVEMENT STRENGTH (PCN)	42		100		26		50	
EFFECTIVE RUNWAY GRADIENT %	0.09	0.09	SAME	SAME	0.22	0.22	SAME	SAME
ALL WEATHER WIND COVERAGE % (20 KNOTS)	99.78	99.78	SAME	SAME	98.16	98.16	SAME	SAME
RUNWAY WIDTH X LENGTH	150' x 8794'		SAME		100' X 6,600'		SAME	
RUNWAY SAFETY AREA WIDTH X LENGTH OFF ENDS	500' X 1000'	500' X 1000'	SAME	SAME	500' X 1000'	500' X 1000'	SAME	SAME
RUNWAY END COORDINATES (NAD 83)	LAT.46° 47' 02.23"N LON.100° 45' 42.43"W	LAT.46° 45' 58.15"N LON.100° 44' 17.23"W	SAME SAME	SAME SAME	LAT.46° 45' 45.42"N LON.100° 44' 54.29"W	LAT.46° 46' 36.02"N LON.100° 43' 54.59"W	SAME SAME	SAME SAME
RUNWAY END ELEVATION	1654.3'	1644.9'	SAME	SAME	1660.4'	1661.1'	SAME	SAME
RUNWAY LIGHTING	HIRL		SAME		HIRL		SAME	
RUNWAY MARKING	PRECISION	PRECISION	SAME	SAME	PRECISION	PRECISION	SAME	SAME
RUNWAY PROTECTION ZONE DIMENSIONS	1000'X1510'X1700'	1000'X1750'X2500'	1000'X1750'X2500'	SAME	500'X1010'X1700'	500'X1010'X1700'	SAME	SAME
FAR PART 77 APPROACH CATEGORY	50:1	50:1	SAME	SAME	34:1	34:1	SAME	SAME
APPROACH TYPE	PRECISION	PRECISION	SAME	SAME	NON-PREC	NON-PREC	SAME	SAME
APPROACH VISIBILITY MINIMUMS	3/4-MILE	1/2-MILE	1/2-MILE	SAME	3/4-MILE	3/4-MILE	SAME	SAME
AERONAUTICAL SURVEY REQUIRED	VERTICALLY GUIDED	VERTICALLY GUIDED	SAME	SAME	VERTICALLY GUIDED	VERTICALLY GUIDED	SAME	SAME
RUNWAY DESIGNATION	NON-UTILITY		SAME		NON-UTILITY		SAME	
RUNWAY DEPARTURE SURFACE	YES	YES	SAME	SAME	YES	YES	SAME	SAME
RUNWAY SHOULDER WIDTH	NONE		SAME		NONE		SAME	
RUNWAY OBJECT FREE AREA WIDTH X LENGTH OFF ENDS	800' X 1000'	800' X 1000'	SAME	SAME	800' X 1000'	800' X 1000'	SAME	SAME
RUNWAY OBSTACLE FREE ZONE WIDTH	400'		SAME		400'		SAME	
RUNWAY OBSTACLE FREE ZONE CRITERIA	CRITERIA MET		SAME		CRITERIA MET		SAME	
THRESHOLD SITING SURFACE (TSS) EB99	TYPE 5, 6, 7	TYPE 5, 6, 7	SAME	SAME	TYPE 4, 6, 7	TYPE 4, 6, 7	SAME	SAME
VISUAL APPROACH AIDS - FAA OWNED	MALS, PAPI	MALSR	SAME + MALSR	SAME	NONE	NONE	SAME	SAME
VISUAL APPROACH AIDS - SPONSOR OWNED	LIGHTED WINDCONE BEACON	LIGHTED WINDCONE, PAPI	SAME	SAME	LIGHTED WINDCONE, REILS, PAPI	LIGHTED WINDCONE, REILS, PAPI	SAME	SAME
INSTRUMENT APPROACH AIDS - FAA	LOC,GS,ILS,GPS	LOC,GS,ILS,GPS	SAME	SAME	RNAV (GPS)		SAME	
INSTRUMENT APPROACH AIDS - SPONSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RUNWAY TOUCHDOWN ZONE ELEVATION (NAVD88)	1,653.3	1,647.2'	SAME	SAME	1659.3'	1,660.0	SAME	SAME
DESIGN AIRCRAFT BY RUNWAY	A-320/MD-80		SAME		FALCON 50		SAME	
WINGSPAN (FEET)	112/108		SAME		62		SAME	
UNDERCARRIAGE (FEET)	50/30 71/21		SAME		24/15		SAME	
APPROACH SPEED (KTS)	136/144		SAME		132		SAME	
DECLARED DISTANCES TORA	8,794'	8,794'	SAME	SAME	6,600'	6,600'	SAME	SAME
TODA	8,794'	8,794'	SAME	SAME	6,600'	6,600'	SAME	SAME
ASDA	8,794'	8,794'	SAME	SAME	6,600'	6,600'	SAME	SAME
LDA	8,794'	8,794'	SAME	SAME	6,600'	6,600'	SAME	SAME
RUNWAY LINE-OF-SIGHT	CRITERIA MET		SAME		CRITERIA MET		SAME	
VERTICAL & HORIZONTAL DATUM	NAVD88 & NAD83		SAME		NAVD88 & NAD83		SAME	
NOTE: N/A = NOT APPLICABLE, TBD = TO BE DETERMINED								

AIRPORT DATA

	EXISTING	FUTURE
AIRPORT REFERENCE CODE (ARC)	D-III	SAME
MEAN MAX. TEMPERATURE (HOTTEST MONTH)	84.4 (JULY)	SAME
AIRPORT ELEVATION (AMSL) (NAVD88)	1661.1'	SAME
AIRPORT NAVAIDS	GPS/ILS/PAPI RNAV/BEACON	SAME SAME
AIRPORT REFERENCE POINT (ARP) (NAD83)	LAT. N 46°46'21.8" LON. W 100°44'44.7"	SAME SAME
CRITICAL AIRCRAFT	A-320/MD-80	SAME
WINGSPAN (FEET)	112/108	SAME
UNDERCARRIAGE (FEET)	50/30 71/21	SAME
APPROACH SPEED (KTS)	136/144	SAME
TAIL HEIGHT (FEET)	40/31	SAME
AIRPORT MAGNETIC VARIATION (AUG. 2018)	6° 0' E	0° 6' W/ yr.
NPIAS SERVICE LEVEL	CS	SAME
STATE EQUIVALENT SERVICE ROLE	COMMERCIAL SERVICE	SAME
AIRPORT PROERTY (ACRES)	2,143	SAME
MISCELLANEOUS FACILITIES	ASR, RTR, RVR, ASOS	SAME

TAXIWAY DATA

		T/W 'C,C1,C3,D*'		T/W 'D*,D1,D2,D3,C2,C4'		T/W 'B,B1'	
		EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE
TAXIWAY DESIGN GROUP (TDG)		5	SAME	4	SAME	2	SAME
WIDTH IN FEET (STANDARD)		75'/100'/90'/60' (75')	SAME	60'/100'/95'/95'/130'/60' (50')	SAME	35'/35' (35')	SAME
SAFETY AREA WIDTH		171'	SAME	118'	SAME	79'	SAME
OBJECT FREE AREA WIDTH		259'	SAME	186'	SAME	131'	SAME
SEPARATION (IN FEET)	T/W TO T/W	215'	SAME	152'	SAME	105'	SAME
	T/W TO OBJECT	129.5'	SAME	93'	SAME	65.5'	SAME
LIGHTING TYPE		MITL	SAME	MITL	SAME	MITL	SAME
DESIGN AIRCRAFT		B-757	SAME	MD-80	SAME	BE-200	SAME

NOTE:
TAXIWAY DESIGN CRITICAL AIRCRAFT MAY DIFFER FROM AIRPORT DESIGN CRITICAL AIRCRAFT.
* TAXIWAY D IS TDG 5 BETWEEN C & 13/31, TDG 4 FOR REMAINDER.

MODIFICATION TO STANDARDS

ITEM	AIRPLANE DESIGN GROUP EXISTING	AIRPLANE DESIGN GROUP FUTURE	STANDARD EXISTING	STANDARD FUTURE	MODIFICATION EXISTING	MODIFICATION FUTURE	REMARKS	APPROVED
NONE REQUIRED								

SPONSOR APPROVAL

NAME/TITLE DATE

REVISIONS & NOTES

NO.	DESCRIPTION	DATE

NOTES:

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SHEET CONTENTS
AIRPORT DATA

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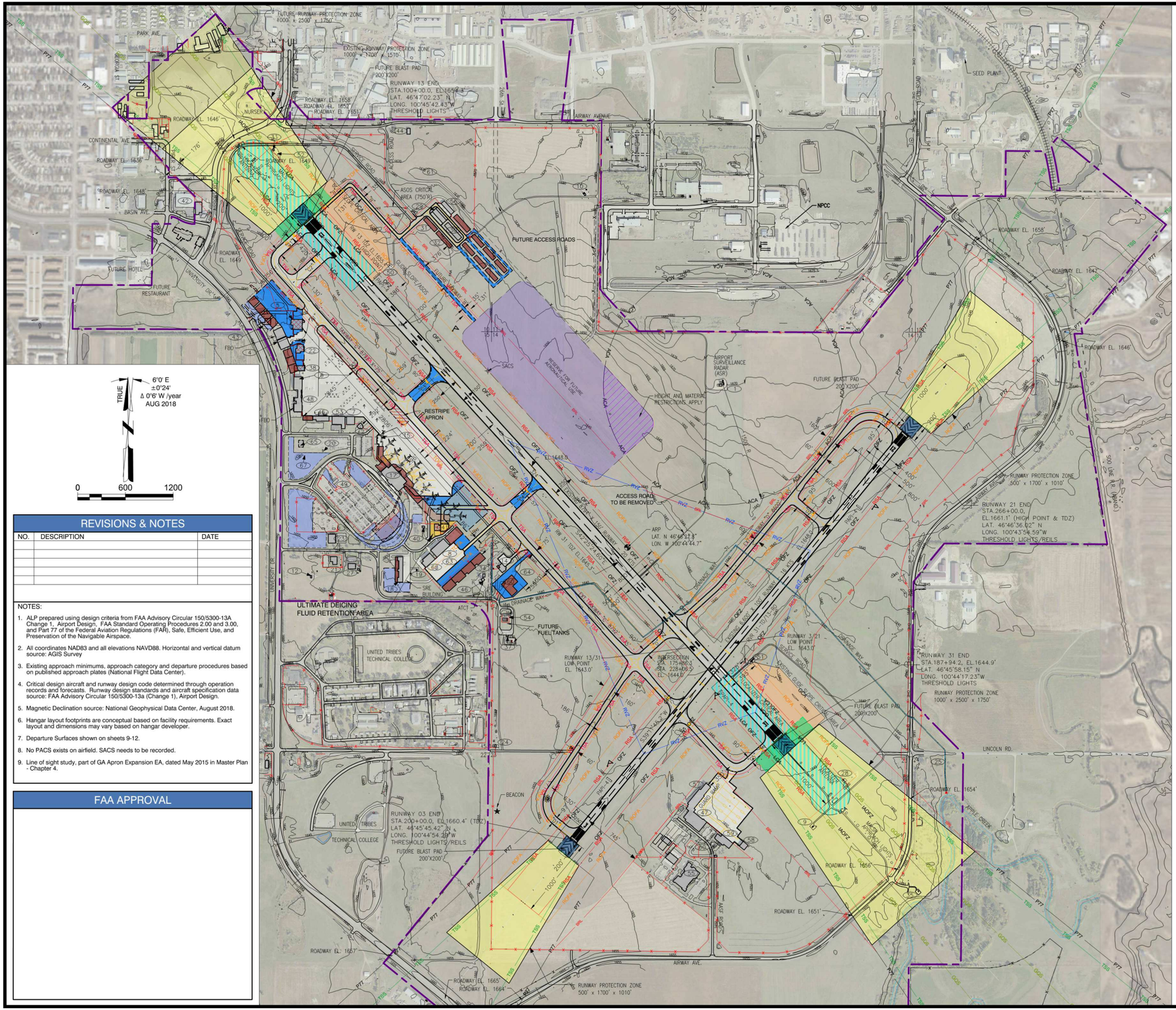

REVISIONS & NOTES

NO.	DESCRIPTION	DATE

NOTES:

1. ALP prepared using design criteria from FAA Advisory Circular 150/5300-13A Change 1, Airport Design, FAA Standard Operating Procedures 2.00 and 3.00, and Part 77 of the Federal Aviation Regulations (FAR), Safe, Efficient Use, and Preservation of the Navigable Airspace.
2. All coordinates NAD83 and all elevations NAVD88. Horizontal and vertical datum source: AGIS Survey
3. Existing approach minimums, approach category and departure procedures based on published approach plates (National Flight Data Center).
4. Critical design aircraft and runway design code determined through operation records and forecasts. Runway design standards and aircraft specification data source: FAA Advisory Circular 150/5300-13a (Change 1), Airport Design.
5. Magnetic Declination source: National Geophysical Data Center, August 2018.
6. Hangar layout footprints are conceptual based on facility requirements. Exact layout and dimensions may vary based on hangar developer.
7. Departure Surfaces shown on sheets 9-12.
8. No PACS exists on airfield. SACS needs to be recorded.
9. Line of sight study, part of GA Apron Expansion EA, dated May 2015 in Master Plan - Chapter 4.

FAA APPROVAL

BUILDING LEGEND

EXT	ULT	DESCRIPTION	TOP ELEV.
1*	1	FAA APPROACH SURVEILLANCE RADAR	1719.5'
2		OPS BLDG/EMERGENCY GENERATOR	1665.2'
4		BISMARCK AERO CENTER HANGAR	1671.5'
5*		CITY HANGAR (TO BE REMOVED)	1690.9'
6		EXECUTIVE AIR TAXI	1696.5'
7		BISMARCK AERO CENTER HANGAR	1671.5'
8		CORP. HANGAR/OFFICE	1679.8'
9		MALSR BUILDING / ENGINE GENERATOR	1660.0'
10		FAA REMOTE TRANSMITTER/RECEIVER (RTR)/RCAG ANTENNA TOWER	1726.3'
12		NWS INFLATION SHELTER	1690.2'
13*		U.S. WEST TELEPHONE BUILDING	
14		AIRPORT FIRE DEPARTMENT (ARFF)	1685.6'
15*		VAULT, COOLING TOWER, EMERGENCY GENERATOR	1665.8'
16*		GARAGE	
17		AIRLINE TERMINAL/AIRPORT ADMIN BUILDING	1717.0'
18		AIRPORT MAINTENANCE BUILDING	1675.7'
19		LIFT STATION #2	1658.8'
20		LIFT STATION #1	1660.4'
21		EMER. MANAGEMENT & COMBINED COMM. CENTER	1670.3'
22*		FBO/NDAC (TO BE RELOCATED)	1669.6'
23		FAA DAK-MINN ADO OFFICE	1693.9'
24		ELECTRICAL VAULT - RWY. 3/21	1671.9'
25		STORAGE GARAGE	
26		LIFT STATION #3	
27		NATIONAL WEATHER SERVICE	1676.6'
28		FAA LOCALIZER - RWY. 13	1660.3'
29		AEROSTOR CONDO #1	1677.8'
30		AREA 51 HANGAR ASSOCIATION	
	31	T-HANGAR SITE C	
	32	T-HANGAR SITE D	
33		FAA LOCALIZER - RWY. 31	1662.9'
34		FAA ATCT GARAGE & EMERGENCY GENERATOR	1660.9'
35		FAA MIDDLE MARKER - RWY. 31	
37		BISMARCK AIRPORT FUEL TANK FARM	1673.0'
38*		WAY-POINT AVIONICS (TO BE REMOVED)	1677.2'
40		FAA REMOTE TRANSMITTER BUILDING/RCAG	1657.5'
41*		CITY HANGAR (TO BE REMOVED)	1671.7'
42		GAS STATION	1670.9'
43*		MEISNER OFFICE BUILDING (TO BE REMOVED)	1664.9'
44		STORAGE BUILDING	1691.7'
45		BIS AERO CENTER	1674.7'
46		FAA AIR TRAFFIC CONTROL TOWER	1733.4'
47		ND NATIONAL GUARD A.A.S.F.	1697.7'
48		EXECUTIVE AIR TAXI	1676.3'
49		EXISTING PAY PARKING LOT EXIT PLAZA	1672.6'
50		FAA GLIDE SLOPE - RWY. 13/ASOS	1700.7'
51		FAA GLIDE SLOPE - RWY. 31	1670.6'
52		FAA MALS - RWY. 13	1659.3'
53		BISMARCK AERO CENTER	1673.5'
54		EXECUTIVE AIR FUEL FARM	1658.5'
55		ND NATIONAL GUARD A.A.S.F. READINESS CENTER	1684.2'
56		BEYER HANGAR	1684.3'
57		ND NG AASF FUEL TRUCK CONTAINMENT AREA	1697.7'
58		ND NATIONAL GUARD A.A.S.F. AIRCRAFT WASH RACK	1690.3'
59		ND NATIONAL GUARD A.A.S.F.	1687.6'
	60	SNOW REMOVAL EQUIPMENT (SRE) BUILDING	
	61	T-HANGARS	
	62	GENERAL AVIATION AREA	
	63	CORPORATE AVIATION AREA	
	64	ELECTRICAL VAULT AREA	
	65	CAR WASH FACILITIY	
	67	RENTAL CAR STORAGE LOT	
68		CORP. HANGAR/OFFICE	

* TO BE REMOVED CR RELOCATED

DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE & EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
PART 77 APPROACH SURFACE	P77	
THRESHOLD SITING SURFACE	TSS	
GQS SURFACE	GQS	
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
OBSTACLE FREE ZONE	OFZ	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVEILLANCE RADAR CRICITAL AREA (ACA)	ACA	
AIRPORT SECURITY FENCE 8'-10' (VARIES BY LOCATION)		
PRECISION OBSTACLE FREE ZONES (POFZ)		
GLIDE SLOPE CRITICAL AREA	GCA	
LOCALIZER CRITICAL AREA	LCA	
FUEL STORAGE AREA		
AIRPORT BEACON		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		
AIRPORT REFERENCE POINT (ARP)		
FUTURE DEVELOPMENT AREA		
SACS		

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SHEET CONTENTS
AIRPORT LAYOUT PLAN

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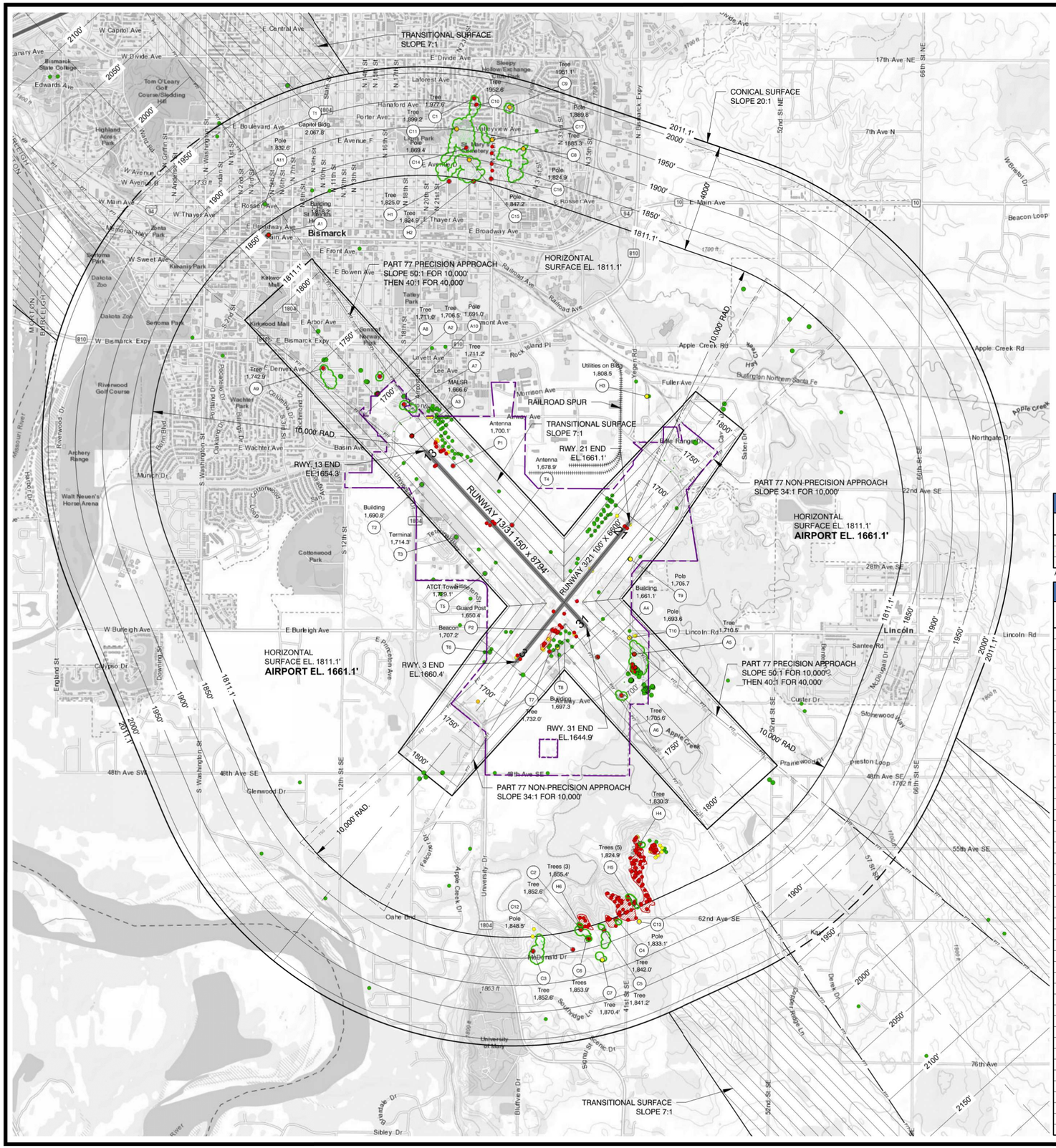
TRANSITIONAL SURFACE
SLOPE 7:1
CONICAL SURFACE
SLOPE 20:1
PART 77 PRECISION APPROACH
SLOPE 50:1 FOR 10,000'
THEN 40:1 FOR 40,000'
HORIZONTAL
SURFACE EL. 1811.1'
PART 77 NON-PRECISION APPROACH
SLOPE 34:1 FOR 10,000'
HORIZONTAL
SURFACE EL. 1811.1'
AIRPORT EL. 1661.1'
RUNWAY 13/31 150' x 8794'
RUNWAY 3/21 100' X 6000'
RWY. 13 END
EL. 1654.3'
RWY. 21 END
EL. 1661.1'
RWY. 3 END
EL. 1660.4'
RWY. 31 END
EL. 1644.9'
10,000' RAD.
RAILROAD SPUR
Bismarck
Lincoln
W Capitol Ave
E Central Ave
W Divide Ave
E Divide Ave
E Boulevard Ave
E Avenue F
W Avenue A
W Avenue B
W Main Ave
E Main Ave
W Thayer Ave
E Thayer Ave
E Broadway Ave
E Rosser Ave
W Rosser Ave
E Front Ave
W Sweet Ave
E Bowen Ave
E Arbor Ave
W Bismarck Expy
E Bismarck Expy
E Denver Ave
E Wachter Ave
Basin Ave
Apple Creek Rd
Fuller Ave
Lee Ave
Levett Ave
Morrison Ave
Avenue A
Rock Island Pl
Railroad Ave
Northgate Dr
7th Ave N
17th Ave NE
22nd Ave SE
28th Ave SE
48th Ave SW
48th Ave SE
55th Ave SE
62nd Ave SE
76th Ave
Lincoln Rd
Santee Rd
Custer Dr
Stonewood Dr
Preston Loop
Prairiewood Dr
Glenwood Dr
Cottonwood Park
Riverwood Golf Course
Archery Range
Walt Neuen's Horse Arena
Dakota Zoo
Sertoma Park
Kirkwood Mall
Century Newman Park
Talley Park
Wachter Park
Lions Park
Highland Acres Park
Memorial Hwy Park
Zinda Park
Kohanny Park
Bismarck State College
Tom O'Leary Golf Course/Sledding Hill
St. Mary Cemetery
University of Mary
Missouri River
Apple Creek
Burlington Northern Santa Fe
Beacon Loop
Sibley Dr
Falcone Dr
Apple Creek Dr
Oahe Blvd
McDermid Dr
Southridge Ln
Derek Dr
Cedar Ridge Ln
Kari Dr
Bluffview Dr
Sunset Dr
Capitol Bldg
2,067.8'
ATCT Tower
1,729.1'
Guard Post
1,650.4'
Beacon
1,707.2'
Terminal
1,714.3'
Building
1,690.8'
MALSR
1,666.6'
Antenna
1,700.1'
Antenna
1,678.9'
Utilities on Bldg
1,808.5'
Building
1,661.1'
Building
1,697.3'
Tree
1,732.0'
Trees (5)
1,824.9'
Trees (3)
1,855.4'
Tree
1,852.6'
Trees
1,853.9'
Tree
1,870.4'
Tree
1,842.0'
Tree
1,841.2'
Pole
1,848.5'
Pole
1,833.1'
Tree
1,830.3'
Tree
1,705.6'
Pole
1,705.7'
Pole
1,693.6'
Tree
1,710.5'
Tree
1,825.0'
Tree
1,824.9'
Pole
1,824.9'
Pole
1,847.2'
Tree
1,951.1'
Tree
1,952.6'
Pole
1,889.8'
Tree
1,977.6'
Tree
1,899.2'
Pole
1,869.4'
Tree
1,885.3'
Pole
1,832.6'
Tree
1,706.5'
Tree
1,711.0'
Tree
1,691.0'
Tree
1,711.2'
Tree
1,742.9'
Pole
1,691.0'
Pole
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Tree
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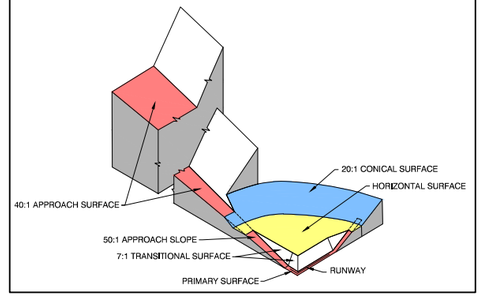
Tree
1,822.6'
Tree
1,822

TYPICAL FAR PART 77 SURFACES



LEGEND: PLAN VIEW

- Existing Runway
- Airport Controlled Property Line (Fee&Easements)
- Part 77 Surfaces
- Part 77 Approach Surface
- Part 77 Surface Contour
- Threshold Siting Surface
- Terrain Contours
- Object Penetrates Part 77 Surface
- Object Within 10ft. Part 77 Surface
- Object Clear >20ft. Part 77 Surface
- Terrain Penetrations

TRUE
6°0' E
±0°24'
Δ 0°6' W /year
AUG 2018

0 2000 4000

REVISIONS & NOTES

NO.	DESCRIPTION	DATE

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: USGS Topographic maps.
- Only airspace surfaces associated with the existing runway and instrument approaches are illustrated (no changes proposed).
- See Inner-Approach Plan for close-in obstructions in RPZ areas and lateral transitional surfaces.
- See Departure Surfaces for 40:1 departure surfaces for each runway.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.

PART 77 OBJECTS

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	OBJECT AGL HEIGHT	PART 77 SURFACE	PART 77 SURFACE ELEVATION	PART 77 PENETRATION	20:1 TSS SURFACE ELEVATION	TSS PENETRATION	DISPOSITION
A1	McKenzie Building	1816.2	136.2'	Horizontal	1,811.1'	4.9'	1,935.8'	-119.6'	Obstruction Light
T1	Capitol Bldg	2067.8	264.8'	Transitional	2,342.6'	-274.8'	Object Not Under Surface		No Action
A11	Pole	1832.6	44.0'	Approach	1,862.4'	-29.8'	1,960.4'	-127.8'	No Action

Mead & Hunt

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CITY OF BISMARCK
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

ISSUED

NOT FOR CONSTRUCTION

M&H PROJECT:	2716000-140293.01
AIP NO.:	3-38-003-055-2015
DATE:	JAN 2019
DESIGNED BY:	M&H
DRAWN BY:	JWB
CHECKED BY:	MRB

DO NOT SCALE DRAWINGS

SHEET CONTENTS

AIRPORT AIRSPACE - EXTENDED NORTH PLAN

SHEET NO.

5 of 22

5

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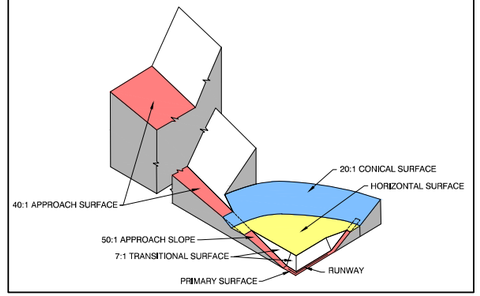
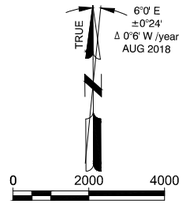
TYPICAL FAR PART 77 SURFACES



LEGEND: PLAN VIEW

- Existing Runway
- Airport Controlled Property Line (Fee&Easement)
- Part 77 Surfaces
- Part 77 Approach Surface
- Part 77 Surface Contour
- Threshold Siting Surface
- Terrain Contours
- Object Penetrates Part 77 Surface
- Object Within 10ft. Part 77 Surface
- Object Clear >20ft. Part 77 Surface
- Terrain Penetrations



REVISIONS & NOTES

NO.	DESCRIPTION	DATE

NOTES:

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- See Departure Surfaces for 40:1 departure surfaces for each runway.
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2301 UNIVERSITY DR., BISMARCK, ND 58504

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M&H PROJECT:	2716000-140293.01
AIP NO.:	3-38-003-055-2015
DATE:	JAN 2019
DESIGNED BY:	M&H
DRAWN BY:	JWB
CHECKED BY:	MRB

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SHEET CONTENTS

AIRPORT AIRSPACE - EXTENDED SOUTH PLAN

SHEET NO. 6 of 22

6

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REVISIONS & NOTES

NO.	DESCRIPTION	DATE

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: USGS Topographic maps.
- Only airspace surfaces associated with the existing runway and instrument approaches are illustrated (no changes proposed).
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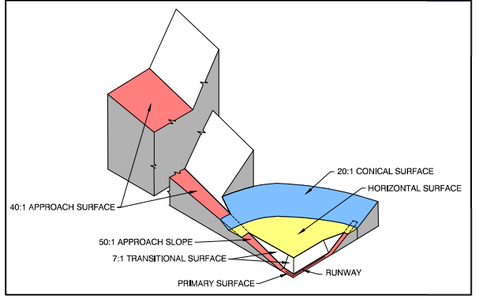
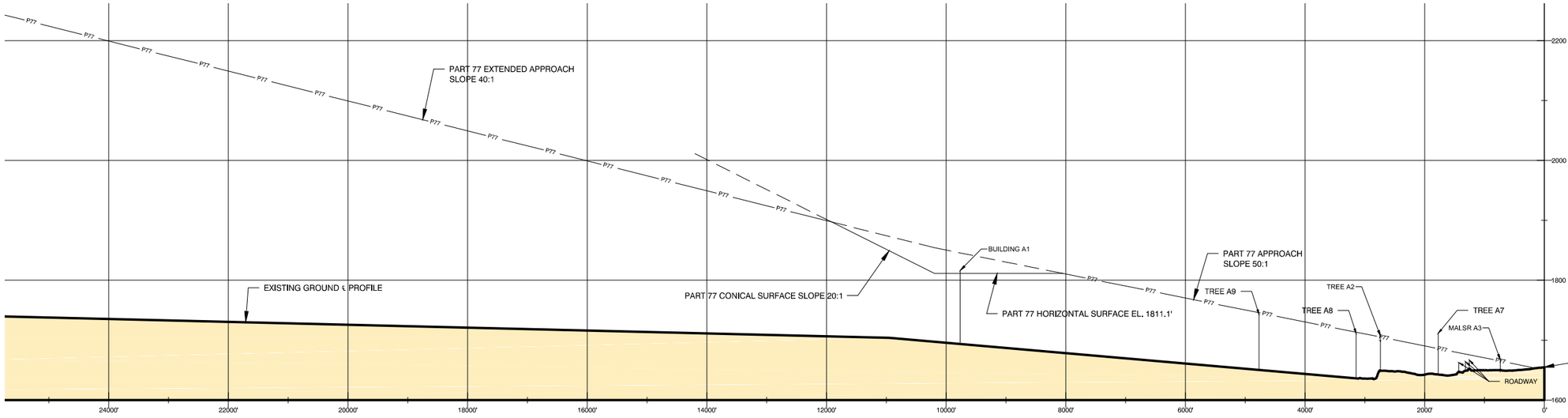
- See Departure Surfaces for 40:1 departure surfaces for each runway.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.

PART 77 OBJECTS

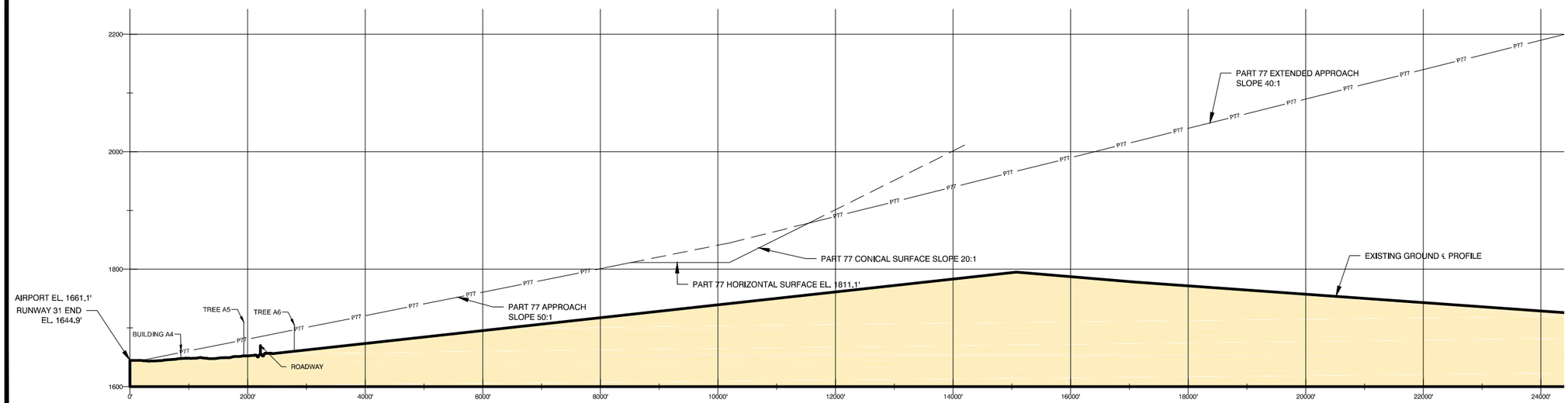
POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	OBJECT AGL HEIGHT	PART 77 SURFACE	PART 77 SURFACE ELEVATION	PART 77 PENETRATION	20:1 TSS SURFACE ELEVATION	TSS PENETRATION	DISPOSITION
A1	McKenzie Building	1816.2	120'	Horizontal	1,811.3'	4.9'	1,935.8'	-119.6'	Obstruction Light
A2	Tree	1706.5	59.6'	Approach	1,705.1'	1.4'	1,729.0'	-22.5'	Cut / Remove
A3	MALSR	1666.6	20.1'	Approach	1,665.1'	1.5'	1,670.0'	-3.4'	No Action
A4	MALSR/Generator Building	1661.1	12.6'	Approach	1,659.4'	1.7'	1,675.8'	-14.7'	Obstruction Light
A5	Tree	1710.5	57.9'	Approach	1,679.5'	31.0'	1,705.1'	5.4'	Cut / Remove
A6	Tree	1705.6	60.5'	Approach	1,705.5'	0.1'	1,729.7'	-24.1'	Cut / Remove
A7	Tree	1711.2	61.5'	Approach	1,683.4'	27.8'	1,697.1'	14.1'	Cut / Remove
A8	Tree	1711	60.0'	Approach	1,710.5'	0.5'	1,736.9'	-25.9'	Cut / Remove
A9	Tree	1742.9	60.0'	Approach	1,742.6'	0.3'	1,784.1'	-41.2'	Cut / Remove

TYPICAL FAR PART 77 SURFACES





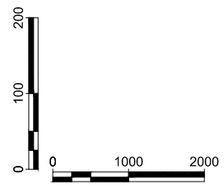
RUNWAY 13 APPROACH PROFILE



RUNWAY 31 APPROACH PROFILE

LEGEND: PROFILE VIEW

- Part 77 Surfaces
- P77 Part 77 Approach Surface
- Non Controlling Surface



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2301 UNIVERSITY DR., BISMARCK, ND 58504

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M&H PROJECT:	2716000-140293.01
AIP NO.:	3-38-003-055-2015
DATE:	JAN 2019
DESIGNED BY:	M&H
DRAWN BY:	JWB
CHECKED BY:	MRB

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SHEET CONTENTS

AIRPORT AIRSPACE - RUNWAY 13-31 PROFILES

SHEET NO. 7 of 22

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REVISIONS & NOTES

NO.	DESCRIPTION	DATE

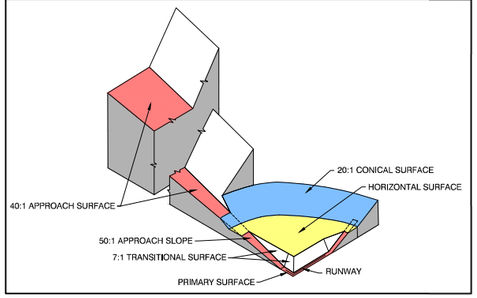
NOTES:

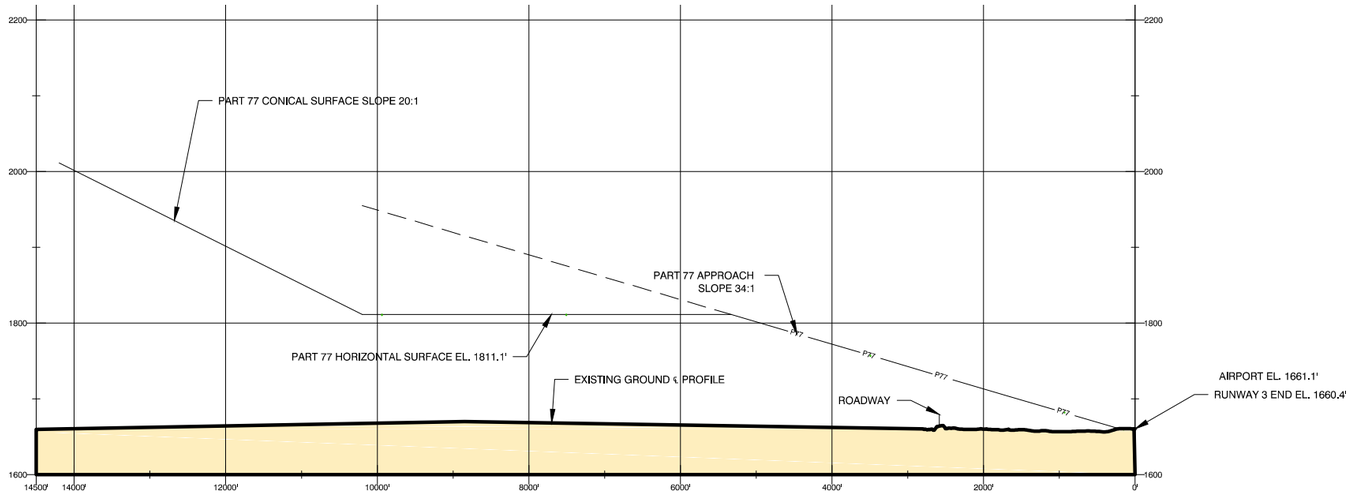
- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: USGS Topographic maps.
- Only airspace surfaces associated with the existing runway and instrument approaches are illustrated (no changes proposed).
- See Inner-Approach Plan for close-in obstructions in RPZ areas and lateral transitional surfaces.
- See Departure Surfaces for 40:1 departure surfaces for each runway.
- For the Data Tables, a negative penetration value indicates the object is clear of the airspace surface.

PART 77 OBJECTS

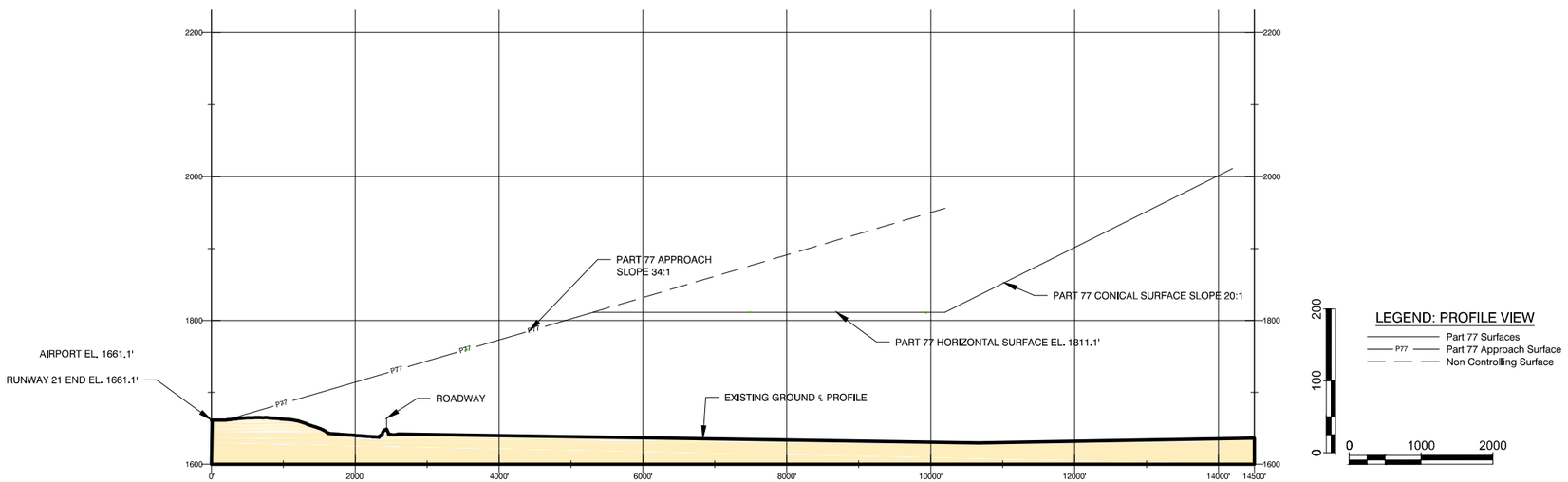
NO OBSTRUCTIONS IDENTIFIED WITHIN APPROACH AREA

TYPICAL FAR PART 77 SURFACES





RUNWAY 3 APPROACH PROFILE



RUNWAY 21 APPROACH PROFILE

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2301 UNIVERSITY DR., BISMARCK, ND 58504

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M&H PROJECT: 2716000-140293.01
AIP NO.: 3-38-003-055-2015
DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
DO NOT SCALE DRAWINGS

SHEET CONTENTS

AIRPORT AIRSPACE - RUNWAY 3-21 PROFILES

SHEET NO. 8 of 22

8

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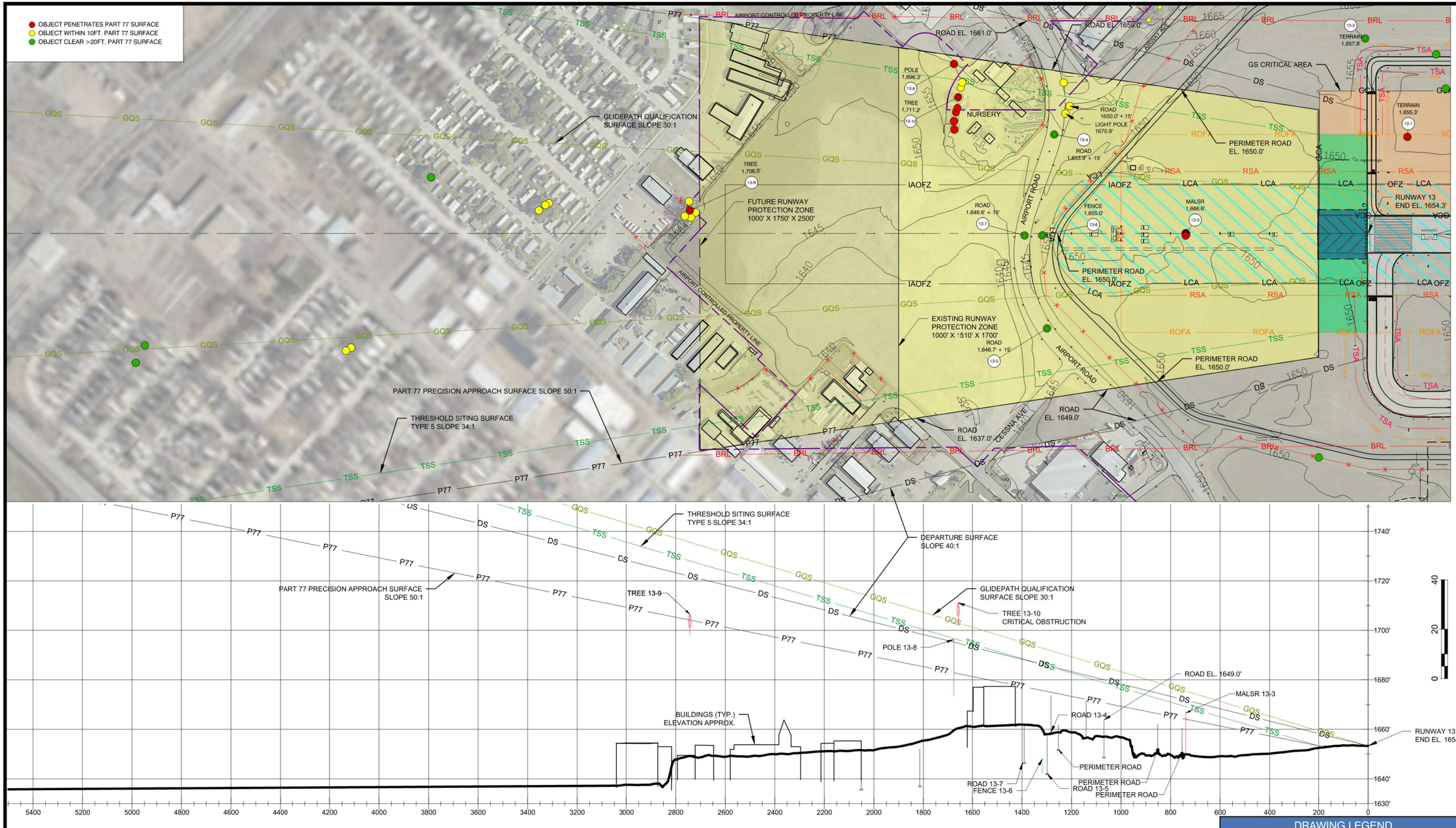


RUNWAY 13 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	OBJECT AGL HEIGHT	PART 77 SURFACE	50:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	34:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GQS SURFACE ELEVATION	GQS PENETRATION	DISPOSITION ^
13-1	Terrain	1,655.3'	0'	Primary	1,654.3'	1.0'	Object Not Under Surface		Object Not Under Surface		To Be Removed
13-2	Terrain	1,657.8'	0'	Transitional	1,696.0'	-38.2'	Object Not Under Surface		Object Not Under Surface		To Be Removed
13-3	MALSR	1,666.6'	17.2'	Approach	1,665.0'	1.6'	1,670.0'	-3.4'	1,678.8'	-12.2'	No Action
13-4	Road	1,668.9'	15.0'	Approach	1,675.6'	-6.7'	1,685.6'	-16.7'	Object Not Under Surface		No Action
13-5	Road	1,661.7'	15.0'	Approach	1,676.2'	-14.5'	1,686.6'	-24.8'	Object Not Under Surface		No Action
13-6	Fence	1,655.0'	8.0'	Approach	1,676.6'	-21.6'	1,687.1'	-32.1'	1,698.1'	-43.1'	No Action
13-7	Road	1,651.6'	15.0'	Approach	1,678.0'	-26.4'	1,689.2'	-37.6'	1,700.5'	-48.9'	No Action
13-8	Pole	1,696.3'	41.3'	Approach	1,683.7'	12.6'	1,697.5'	-1.2'	1,709.9'	-13.6'	No Action
13-9	Tree	1,706.5'	57.4'	Approach	1,705.1'	1.4'	1,729.0'	-22.5'	1,745.6'	-39.1'	Cut / Remove
13-10	Trees	1,711.2'	56.2'	Approach	1,683.3'	27.9'	1,697.0'	14.2'	1,709.3'	1.9'	Cut / Remove

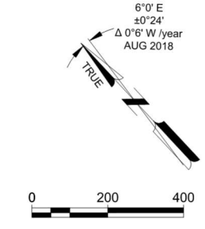
REVISIONS

NO.	DESCRIPTION	DATE

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: Aerial Imagery DIGITALGLOBE 2017.

OBJECT PENETRATES PART 77 SURFACE
OBJECT WITHIN 10FT. PART 77 SURFACE
OBJECT CLEAR >20FT. PART 77 SURFACE



DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE & EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
PART 77 APPROACH SURFACE	P77	
THRESHOLD SITING SURFACE	TSS	
GQS SURFACE	GQS	
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
OBSTACLE FREE ZONE	OFZ	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVEILLANCE RADAR CRICITAL AREA (ACA)	ACA	
AIRPORT SECURITY FENCE 8'-10' (VARIES BY LOCATION)		
PRECISION OBSTACLE FREE ZONES (POFZ)		
GLIDE SLOPE CRITICAL AREA		
LOCALIZER CRITICAL AREA		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		

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DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
DO NOT SCALE DRAWINGS

SHEET CONTENTS

RUNWAY 13 INNER APPROACH PLAN & PROFILE

SHEET NO. 9 of 22

9

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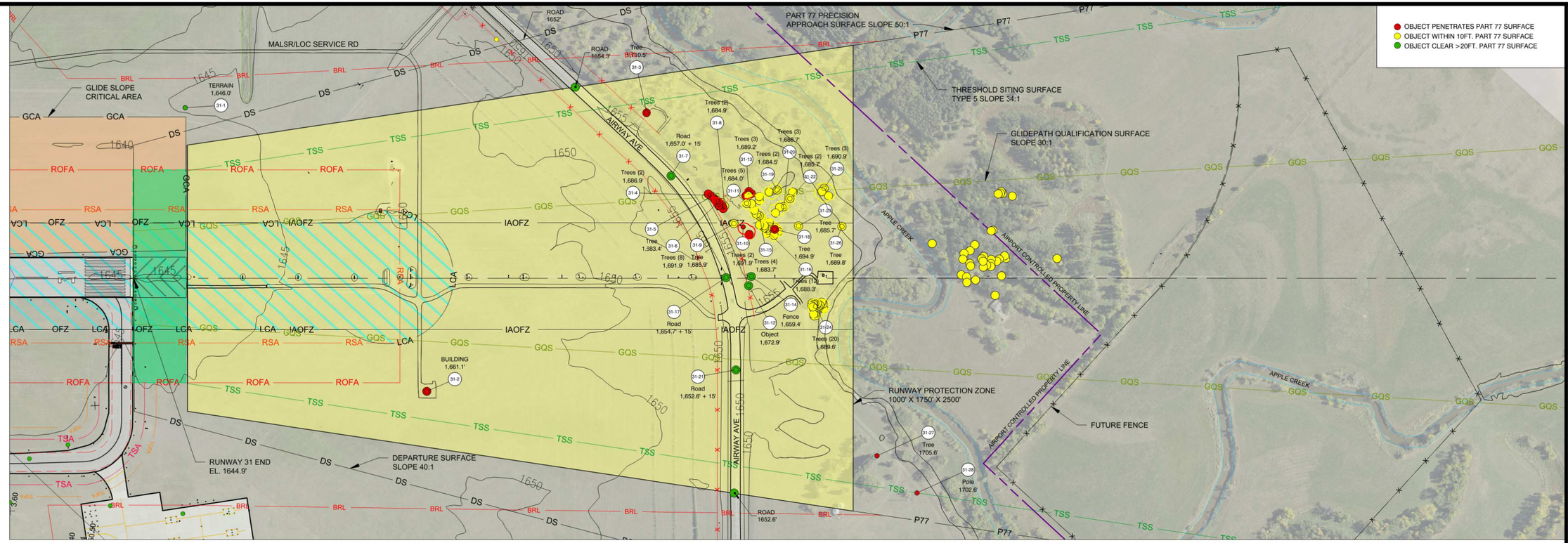

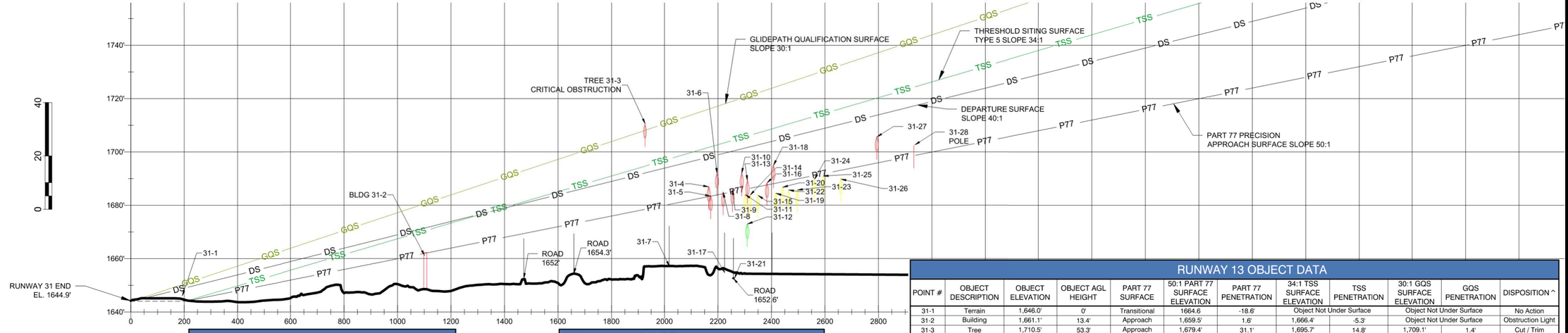

DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE & EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
PART 77 APPROACH SURFACE	P77	
THRESHOLD SITING SURFACE	TSS	
GQS SURFACE	GQS	
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
OBSTACLE FREE ZONE	OFZ	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVEILLANCE RADAR CRICITAL AREA (ACA)	ACA	
AIRPORT SECURITY FENCE 8'-10' (VARIES BY LOCATION)	X	X
PRECISION OBSTACLE FREE ZONES (POFZ)		
GLIDE SLOPE CRITICAL AREA		
LOCALIZER CRITICAL AREA		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		

REVISIONS

NO.	DESCRIPTION	DATE

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- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: Aerial Imagery DIGITALGLOBE 2017.

RUNWAY 13 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	OBJECT AGL HEIGHT	PART 77 SURFACE	50:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	34:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GQS SURFACE ELEVATION	GQS PENETRATION	DISPOSITION ^
31-1	Terrain	1,646.0'	0'	Transitional	1664.6	-18.6'	Object Not Under Surface		Object Not Under Surface		No Action
31-2	Building	1,661.1'	13.4'	Approach	1,659.5'	1.6'	1,666.4'	-5.3'	Object Not Under Surface		Obstruction Light
31-3	Tree	1,710.5'	53.3'	Approach	1,679.4'	31.1'	1,695.7'	14.8'	1,709.1'	1.4'	Cut / Trim
31-4	Trees (2)	1,686.9'	32.9'	Approach	1,684.2'	2.7'	1,702.7'	-15.8'	Object Not Under Surface		Cut / Trim
31-5	Tree	1,683.4'	30.1'	Approach	1,684.4'	-1.0'	1,703.0'	-19.6'	1,717.4'	-34.0'	No Action
31-6	Trees (8)	1,691.9'	34.6'	Approach	1,684.9'	7.0'	1,703.7'	-11.8'	1,718.2'	-26.3'	Cut/Trim
31-7	Road	1,672.0'	15.0'	Approach	1,684.9'	-12.9'	1,703.7'	-31.7'	Object Not Under Surface		No Action
31-8	Trees (2)	1,684.9'	28.5'	Approach	1,685.3'	-0.4'	1,704.3'	-19.4'	1,718.9'	-34.0'	No Action
31-9	Tree	1,685.9'	31.2'	Approach	1,686.0'	-0.1'	1,705.4'	-19.5'	1,720.1'	-34.2'	No Action
31-10	Trees (2)	1,691.9'	37.6'	Approach	1,686.7'	5.2'	1,706.4'	-14.5'	1,721.2'	-29.3'	Cut/Trim
31-11	Trees (5)	1,684.0'	29.7'	Approach	1,687.0'	-3.0'	1,706.7'	-22.7'	1,721.7'	-37.7'	No Action
31-12	Object	1,672.9'	18.7'	Approach	1,687.1'	-14.2'	1,707.0'	-34.1'	1,721.9'	-49.0'	No Action
31-13	Trees (3)	1,689.2'	35.2'	Approach	1,687.1'	2.1'	1,707.0'	-17.8'	1,722.0'	-32.8'	Cut/Trim
31-14	Fence	1,659.4'	8'	Approach	1,687.3'	-27.9'	1,707.2'	-47.8'	1,722.2'	-62.8'	No Action
31-15	Trees (4)	1,683.7'	29.5'	Approach	1,687.9'	-4.2'	1,708.2'	-24.5'	1,723.3'	-39.6'	No Action
31-16	Trees (12)	1,688.3'	34.0'	Approach	1,688.6'	-0.3'	1,709.1'	-20.8'	1,724.4'	-36.1'	No Action
31-17	Road	1,669.7'	15.0'	Approach	1,689.0'	-19.3'	1,709.7'	-40.0'	1,725.0'	-55.3'	No Action
31-18	Tree	1,694.9'	40.6'	Approach	1,689.1'	5.8'	1,709.9'	-15.0'	1,725.2'	-30.3'	Cut/Trim
31-19	Trees (2)	1,684.5'	30.3'	Approach	1,689.3'	-4.8'	1,710.1'	-25.6'	1,725.5'	-41.0'	No Action
31-20	Trees (3)	1,686.7'	32.4'	Approach	1,689.8'	-3.1'	1,710.9'	-24.2'	1,726.3'	-39.6'	No Action
31-21	Road	1,667.6'	15.0'	Approach	1,689.8'	-22.2'	1,710.9'	-43.3'	Object Not Under Surface		No Action
31-22	Trees (2)	1,685.7'	31.7'	Approach	1,690.2'	-4.5'	1,711.5'	-25.8'	1,727.1'	-41.4'	No Action
31-23	Tree	1,685.7'	31.7'	Approach	1,690.9'	-5.2'	1,712.5'	-26.8'	1,728.2'	-42.5'	No Action
31-24	Trees (20)	1,689.6'	35.4'	Approach	1,692.1'	-2.5'	1,714.4'	-24.8'	1,730.3'	-40.7'	No Action
31-25	Trees (3)	1,690.9'	36.9'	Approach	1,692.8'	-1.9'	1,715.3'	-24.4'	1,731.4'	-40.5'	No Action
31-26	Tree	1,689.8'	35.8'	Approach	1,694.1'	-4.3'	1,717.3'	-27.5'	1,733.6'	-43.8'	No Action
31-27	Tree	1,705.6'	65.0'	Approach	1,696.1'	9.5'	1,720.3'	-14.7'	1,737.0'	-31.4'	No Action
31-28	Pole	1,702.6'	48.8'	Approach	1,698.9'	3.7'	1,724.4'	-21.8'	1,741.6'	-39.0'	No Action

6°0' E
±0°24'
Δ 0°6' W /year
AUG 2018
TRUE

0 200 400

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CITY OF BISMARCK
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

ISSUED

NOT FOR CONSTRUCTION

M&H PROJECT: 2716000-140293.01
AIP NO.: 3-38-003-055-2015
DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
DO NOT SCALE DRAWINGS

SHEET CONTENTS
RUNWAY 31 INNER APPROACH PLAN & PROFILE

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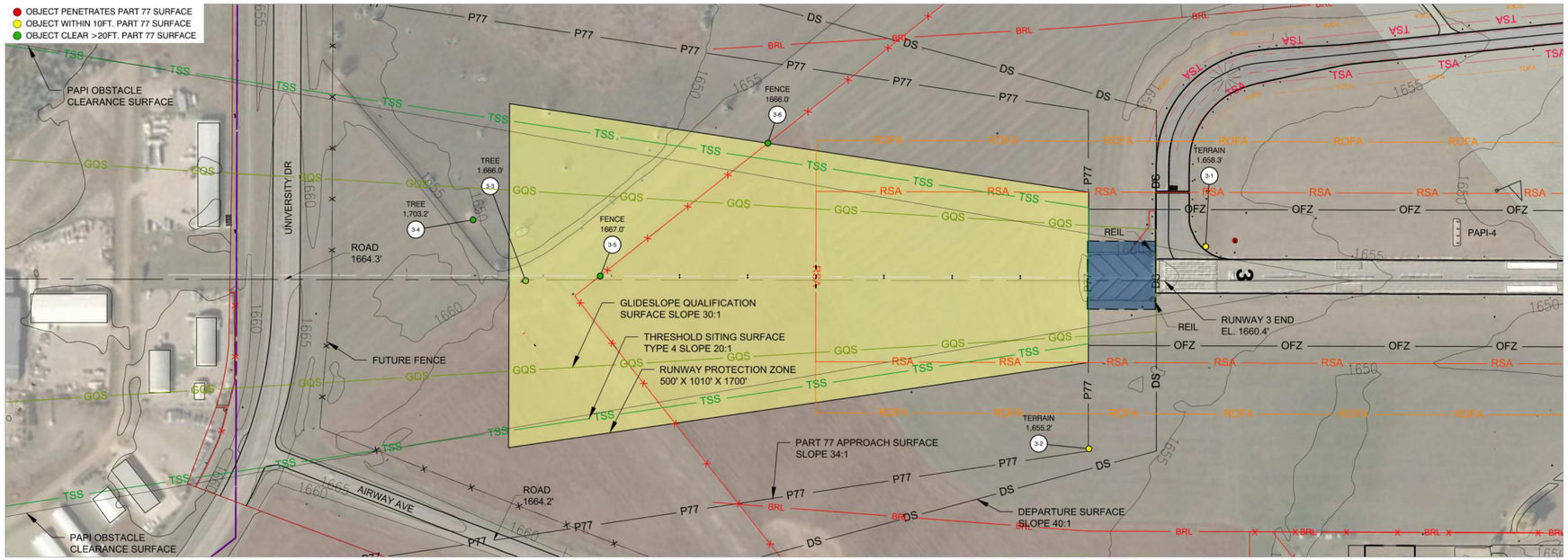
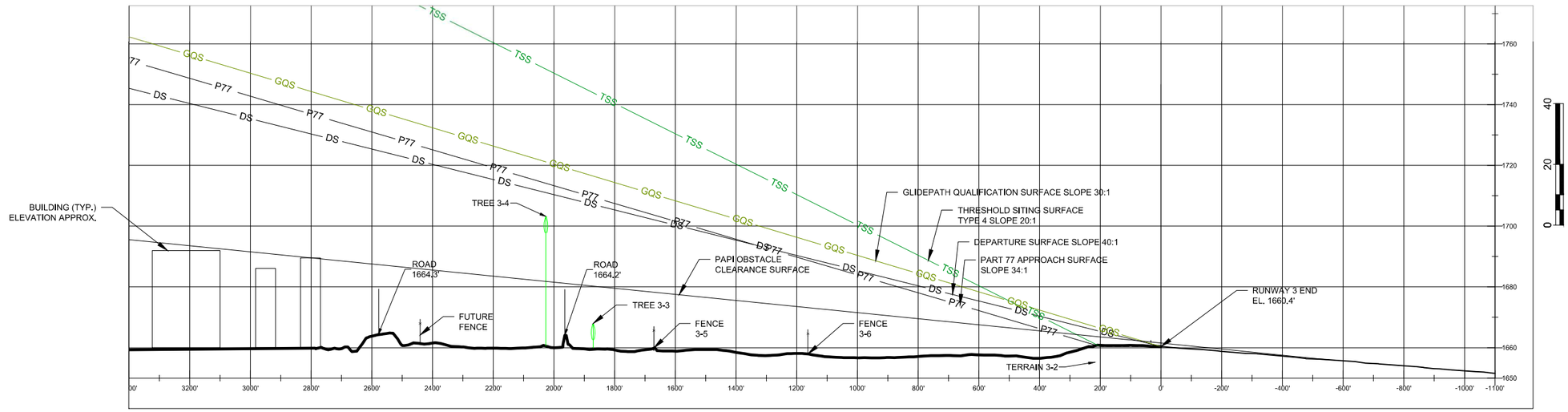


RUNWAY 3 INNER APPROACH PLAN



RUNWAY 3 INNER APPROACH PROFILE

RUNWAY 3 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	OBJECT AGL HEIGHT	PART 77 SURFACE	34:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	20:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GQS SURFACE ELEVATION	GQS PENETRATION	DISPOSITION ^
3-1	Terrain	1658.30	0'	Primary	1,660.4'	-2.1'	Object Not Under Surface		Object Not Under Surface		No Action
3-2	Terrain	1655.20	0'	Approach	1,660.2'	-5.0'	1660.1	-4.9	Object Not Under Surface		No Action
3-3	Tree	1666.00	8'	Approach	1,709.6'	-43.6'	1744.0	-78.0	1722.8	-56.8	No Action
3-4	Tree	1703.20	42.5'	Approach	1,713.4'	-10.2'	1750.6	-47.4	1727.2	-24.0	No Action
3-5	Fence	1667.00	8'	Approach	1,703.6'	-36.6'	1733.9	-66.9	1710.5	-43.5	No Action
3-6	Fence	1666.00	8'	Approach	1,688.7'	-22.7'	1708.6	-42.6	1695.3	-29.3	No Action

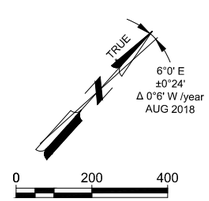
REVISIONS

NO.	DESCRIPTION	DATE

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: Aerial Imagery DIGITALGLOBE 2017.

OBJECT PENETRATES PART 77 SURFACE
OBJECT WITHIN 10FT. PART 77 SURFACE
OBJECT CLEAR >20FT. PART 77 SURFACE



DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE & EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
PART 77 APPROACH SURFACE	P77	
THRESHOLD SITING SURFACE	TSS	
GQS SURFACE	GQS	
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
OBSTACLE FREE ZONE	OFZ	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVEILLANCE RADAR CRICITAL AREA (ACA)	ACA	
AIRPORT SECURITY FENCE 8'-10' (VARIES BY LOCATION)		
PRECISION OBSTACLE FREE ZONES (POFZ)		
GLIDE SLOPE CRITICAL AREA		
LOCALIZER CRITICAL AREA		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		

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BISMARCK AIRPORT

2301 UNIVERSITY DR., BISMARCK, ND 58504

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M&H PROJECT: 2716000-140293.01
AIP NO.: 3-38-003-055-2015
DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
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SHEET CONTENTS

RUNWAY 3 INNER APPROACH PLAN & PROFILE

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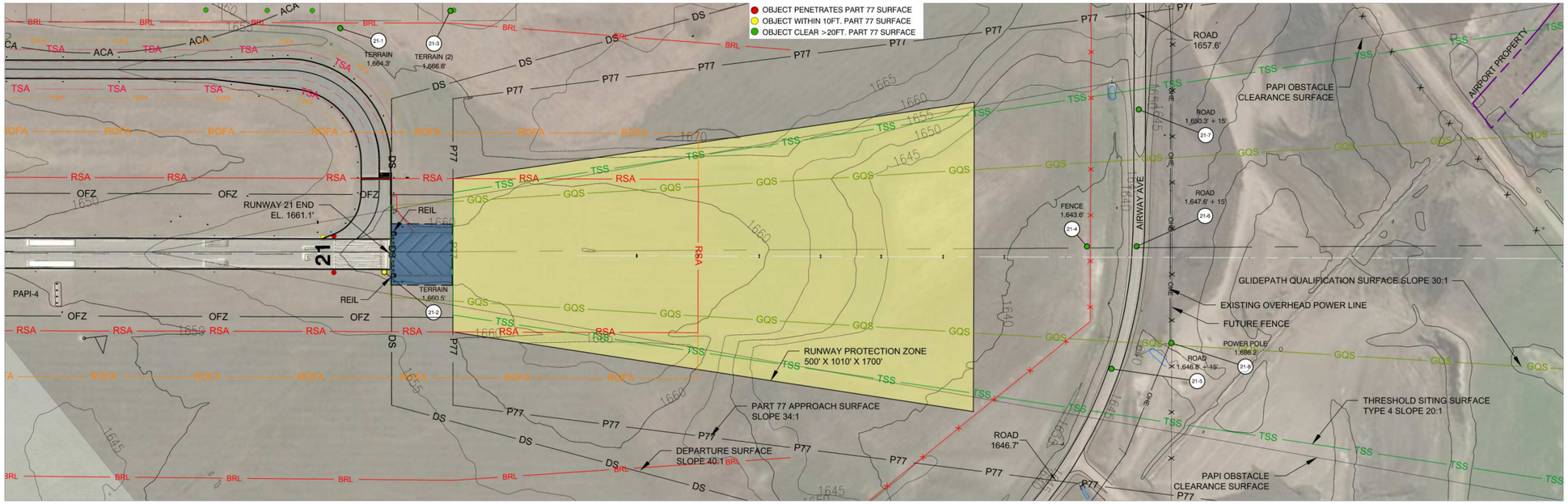
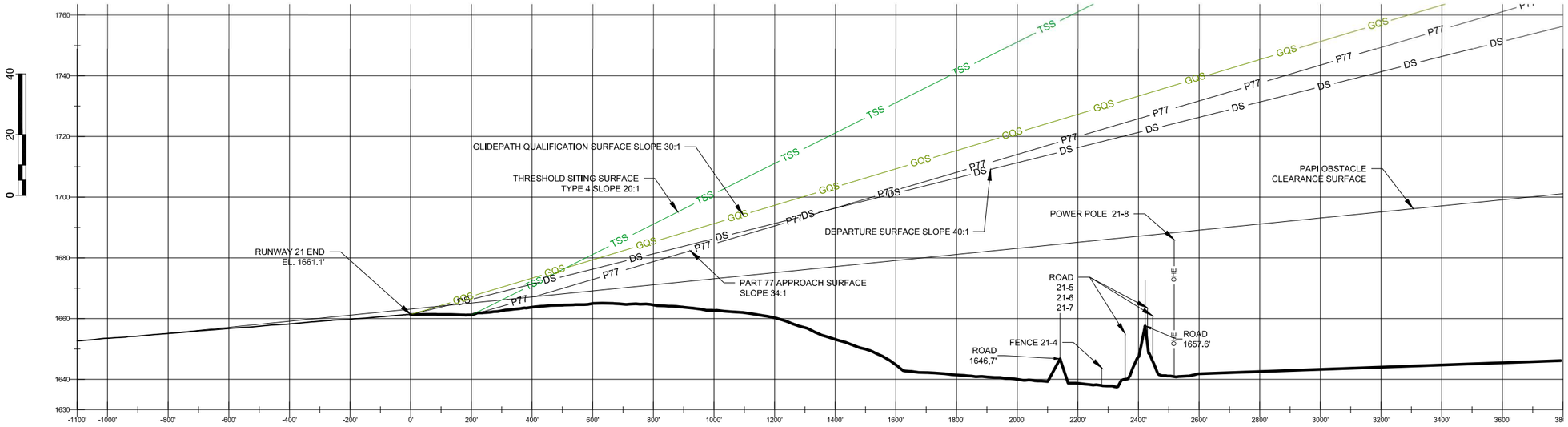


RUNWAY 21 INNER APPROACH PLAN



RUNWAY 21 INNER APPROACH PROFILE

RUNWAY 21 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	OBJECT AGL HEIGHT	PART 77 SURFACE	34:1 PART 77 SURFACE ELEVATION	PART 77 PENETRATION	20:1 TSS SURFACE ELEVATION	TSS PENETRATION	30:1 GQS SURFACE ELEVATION	GQS PENETRATION	DISPOSITION ^
21-1	Terrain	1664.30	0'	Transitional	1694.2	-29.9'	Object Not Under Surface		Object Not Under Surface		No Action
21-2	Terrain	1660.50	0'	Primary	1661.1	-0.6'	Object Not Under Surface		Object Not Under Surface		No Action
21-3	Terrain (2)	1666.60	0'	Transitional	1702.1	-35.5'	Object Not Under Surface		Object Not Under Surface		No Action
21-4	Fence	1643.60	8'	Approach	1,726.4'	-82.8'	1,772.1'	-128.5'	1,741.8'	-98.2'	No Action
21-5	Road	1661.80	15'	Approach	1,728.7'	-66.9'	1,776.1'	-114.3'	1,744.4'	-82.6'	No Action
21-6	Road	1662.60	15'	Approach	1,731.2'	-68.6'	1,780.2'	-117.6'	1,747.2'	-84.6'	No Action
21-7	Road	1665.30	15'	Approach	1,731.4'	-66.1'	1,780.6'	-115.3'	1,747.4'	-82.1'	No Action
21-8	Power Pole	1686.20	46'	Approach	1,730.1'	-43.9'	1,778.4'	-92.2'	1,746.0'	-59.7'	No Action

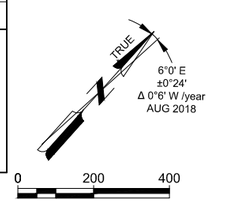
REVISIONS

NO.	DESCRIPTION	DATE

NOTES:

- Runway ends, Part 77 surface contours and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: Aerial Imagery DIGITALGLOBE 2017.

OBJECT PENETRATES PART 77 SURFACE
OBJECT WITHIN 10FT. PART 77 SURFACE
OBJECT CLEAR >20FT. PART 77 SURFACE



DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE & EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
PART 77 APPROACH SURFACE	P77	
THRESHOLD SITING SURFACE	TSS	
GQS SURFACE	GQS	
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
OBSTACLE FREE ZONE	OFZ	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVEILLANCE RADAR CRICITAL AREA (ACA)	ACA	
AIRPORT SECURITY FENCE 8'-10' (VARIES BY LOCATION)		
PRECISION OBSTACLE FREE ZONES (POFZ)		
GLIDE SLOPE CRITICAL AREA		
LOCALIZER CRITICAL AREA		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		
OVERHEAD POWER LINE		

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2301 UNIVERSITY DR., BISMARCK, ND 58504

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RUNWAY 21 INNER APPROACH PLAN & PROFILE

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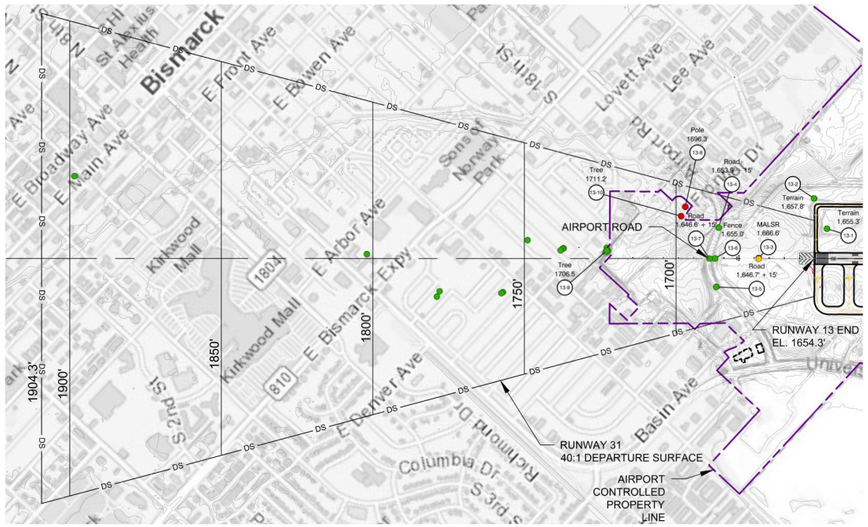
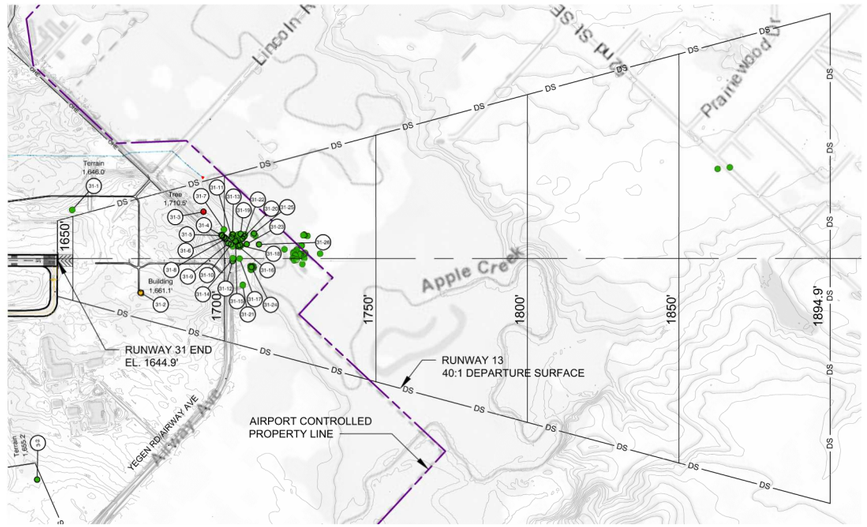


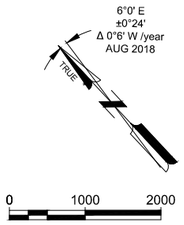
RUNWAY 31 DEPARTURE SURFACE PLAN

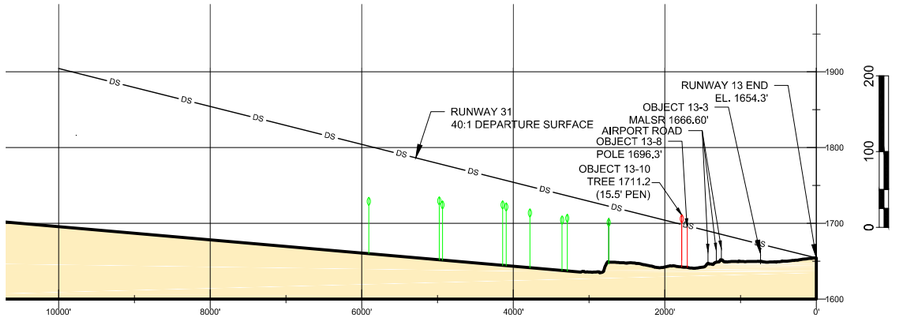


RUNWAY 13 DEPARTURE SURFACE PLAN

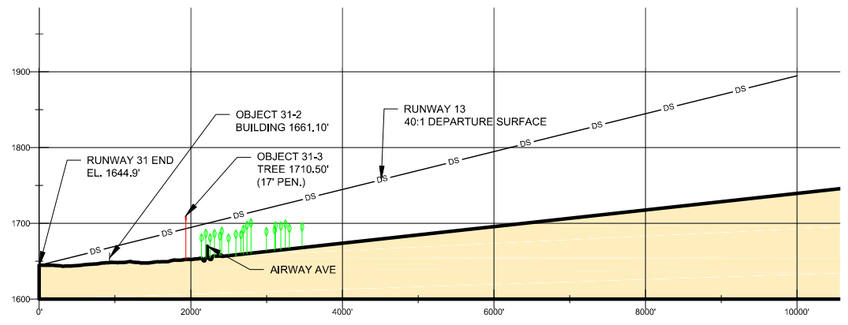
LEGEND: PLAN VIEW

- Airport Controlled Property Line (Fee & Easements)
- DS — Departure Surface
- Object Penetrates Departure Surface
- Object Within 10ft. Departure Surface
- Object Clear >10ft. Departure Surface





RUNWAY 31 DEPARTURE SURFACE PROFILE



RUNWAY 13 DEPARTURE SURFACE PROFILE

LEGEND: PROFILE VIEW

- DS — 40:1 Departure Surface

RUNWAY 13 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	40:1 DEPARTURE SURFACE ELEVATION	DEPARTURE SURFACE PENETRATION
13-1	Terrain	1655.3	1,650.2'	5.1'
13-2	Terrain	1657.8	1,654.5'	3.3'
13-3	MALSR	1666.6	1,672.7'	-6.1'
13-4	Road	1668.9	1,685.9'	-17.0'
13-5	Road	1661.7	1,686.7'	-25.0'
13-6	Fence	1655.0	1,687.1'	-32.1'
13-7	Road	1651.6	1,688.9'	-37.3'
13-8	Pole	1696.3	1,696.0'	0.3'
13-9	Tree	1706.5	1,722.8'	-16.3'
13-10	Tree	1711.20	1,695.7'	15.5'

RUNWAY 31 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	40:1 DEPARTURE SURFACE ELEVATION	DEPARTURE SURFACE PENETRATION
31-1	Terrain	1646	1,649.8'	-3.8'
31-2	Building	1661.1	1,668.2'	-7.1'
31-3	Tree	1710.5	1,693.1'	17.4'
31-4	Trees (2)	1686.9	1,699.1'	-12.2'
31-5	Tree	1683.4	1,699.2'	-15.8'
31-6	Trees (8)	1691.9	1,699.8'	-7.9'
31-7	Road	1672	1,699.9'	-27.9'
31-8	Trees (2)	1684.9	1,700.4'	-15.5'
31-9	Tree	1685.9	1,701.3'	-15.4'
31-10	Trees (2)	1691.9	1,702.2'	-10.3'
31-11	Trees (5)	1684	1,702.5'	-18.5'
31-12	Object	1672.9	1,702.7'	-29.8'
31-13	Trees (3)	1689.2	1,702.7'	-13.5'
31-14	Fence	1659.4	1,702.9'	-43.5'
31-15	Trees (4)	1683.7	1,703.7'	-20.0'
31-16	Trees (12)	1688.3	1,704.5'	-16.2'
31-17	Road	1669.7	1,705.0'	-35.3'
31-18	Tree	1694.9	1,705.1'	-10.2'
31-19	Trees (2)	1684.5	1,705.3'	-20.8'
31-20	Trees (3)	1686.7	1,706.0'	-19.3'
31-21	Road	1667.6	1,706.0'	-38.4'
31-22	Trees (2)	1685.7	1,706.5'	-20.8'
31-23	Tree	1685.7	1,707.3'	-21.6'
31-24	Trees (20)	1689.6	1,709.0'	-19.4'
31-25	Trees (3)	1690.9	1,709.8'	-18.9'
31-26	Tree	1689.8	1,711.4'	-21.6'

DEPARTURE SURFACE AGIS OBJECTS

		DEPARTURE SURFACE	
		RUNWAY 31	RUNWAY 13
●	# OBJECTS THAT PENETRATE DEPARTURE SURFACE	0	1
●	# OBJECTS WITHIN 10 FEET OF DEPARTURE SURFACE	5	1
●	# OBJECTS > 10 FEET CLEAR OF DEPARTURE SURFACE	15	106

REVISIONS

NO.	DESCRIPTION	DATE

NOTES:

- Runway ends and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: USGS Topographic maps.

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CITY OF BISMARCK
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

ISSUED

NOT FOR CONSTRUCTION

M&H PROJECT: 2716000-140293.01
AIP NO.: 3-38-003-055-2015
DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
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SHEET CONTENTS

RUNWAY 13-31
DEPARTURE
SURFACES

SHEET NO. 13 of 22

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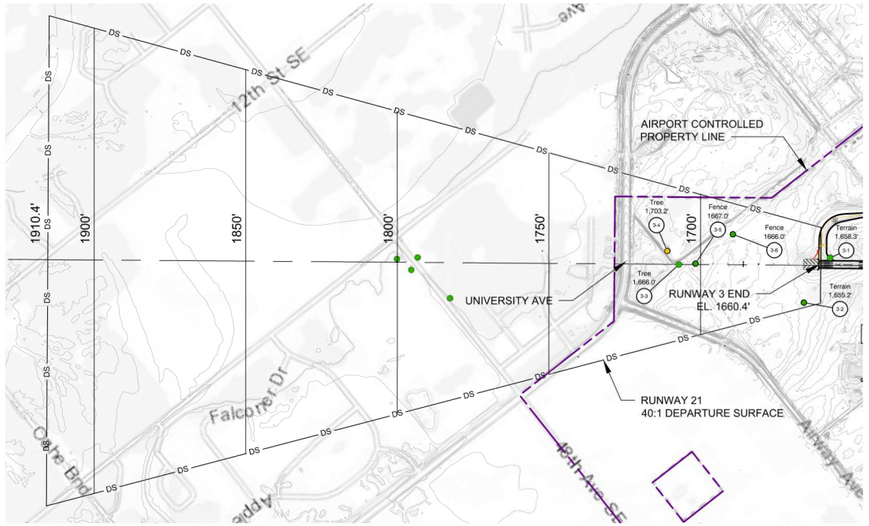
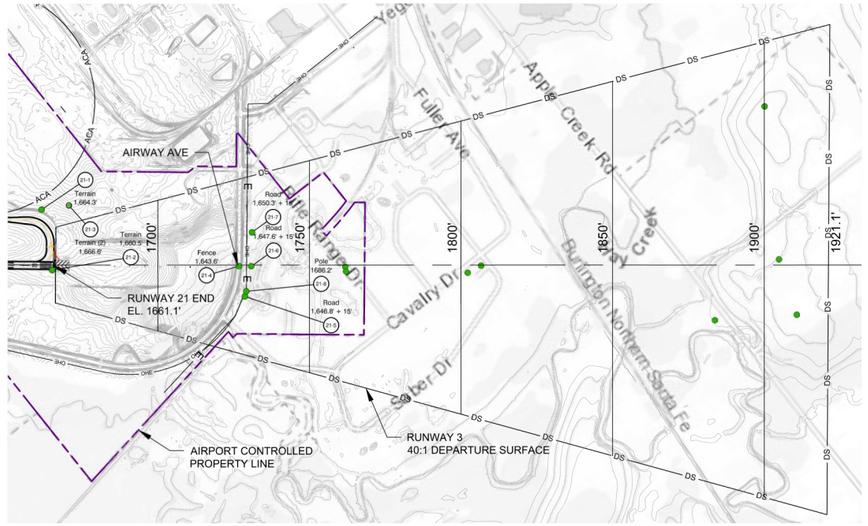


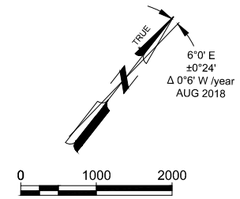
RUNWAY 21 DEPARTURE SURFACE PLAN

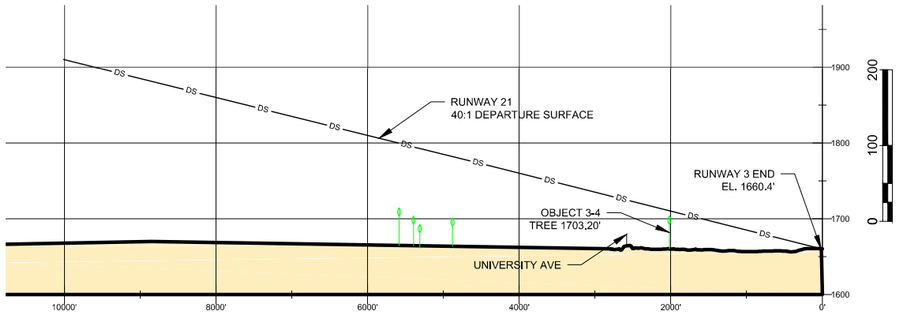


RUNWAY 3 DEPARTURE SURFACE PLAN

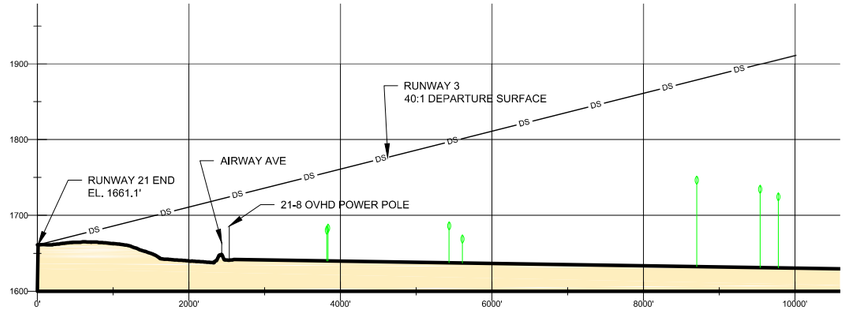
LEGEND: PLAN VIEW

- Airport Controlled Property Line (Fee & Easements)
- DS — Departure Surface
- Object Penetrates Departure Surface
- Object Within 10ft. Departure Surface
- Object Clear >10ft. Departure Surface





RUNWAY 21 DEPARTURE SURFACE PROFILE



RUNWAY 3 DEPARTURE SURFACE PROFILE

LEGEND: PROFILE VIEW

DS — 40:1 Departure Surface

RUNWAY 3 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	40:1 DEPARTURE SURFACE ELEVATION	DEPARTURE SURFACE PENETRATION
3-1	Terrain	1658.3	1,656.7'	1.6'
3-2	Terrain	1655.2	1,665.3'	-10.1'
3-3	Tree	1666.0	1,707.2'	-41.2'
3-4	Tree	1703.2	1,710.5'	-7.3'
3-5	Fence	1667.00	1,701.2'	-34.2'
3-6	Fence	1666.00	1,688.9'	-22.9'

RUNWAY 21 OBJECT DATA

POINT #	OBJECT DESCRIPTION	OBJECT ELEVATION	40:1 DEPARTURE SURFACE ELEVATION	DEPARTURE SURFACE PENETRATION
21-1	Terrain	1664.3	1,656.8'	7.5'
21-2	Terrain	1660.5	1,660.6'	-0.1'
21-3	Terrain (2)	1666.6	1,665.9'	0.7'
21-4	Fence	1643.6	1,721.6'	-78.0'
21-5	Road	1661.8	1,723.6'	-61.8'
21-6	Road	1662.6	1,725.7'	-63.1'
21-7	Road	1665.3	1,725.8'	-60.5'
21-8	Power Pole	1686.2	1,724.7'	-38.5'

DEPARTURE SURFACE AGIS OBJECTS

		DEPARTURE SURFACE	
		RUNWAY 21	RUNWAY 3
●	# OBJECTS THAT PENETRATE PART 77 SURFACE	0	0
●	# OBJECTS WITHIN 10 FEET OF PART 77 SURFACE	1	0
●	# OBJECTS > 10 FEET CLEAR OF PART 77 SURFACE	5	8

REVISIONS

NO.	DESCRIPTION	DATE

NOTES:

- Runway ends and obstruction elevations are shown in NAD83 and NAVD88. All elevations in feet above mean sea level (MSL).
- Object and runway end elevation source: AGIS Survey, Martinez Geospatial, November 2015.
- Basemap source: USGS Topographic maps.

Mead & Hunt

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SHEET CONTENTS
RUNWAY 3-21 DEPARTURE SURFACES

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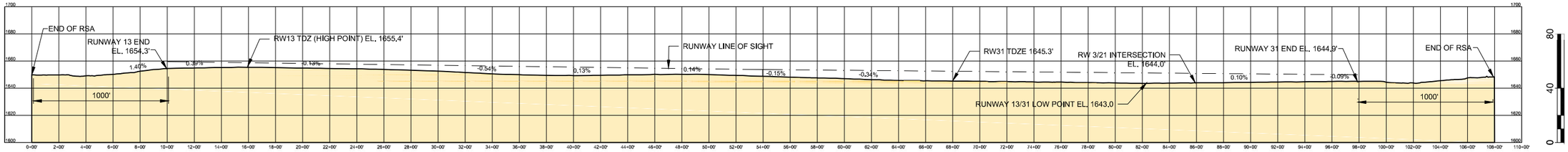
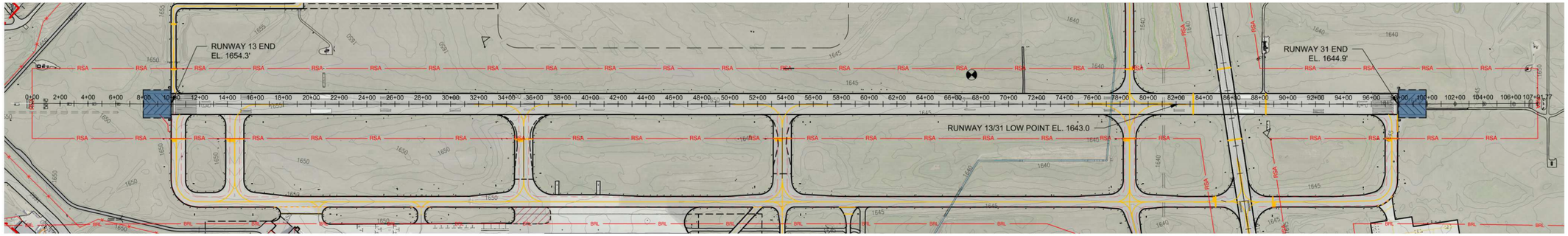
RUNWAY 13/31 CENTERLINE PROFILE (2015 PRE-CONSTRUCTION)



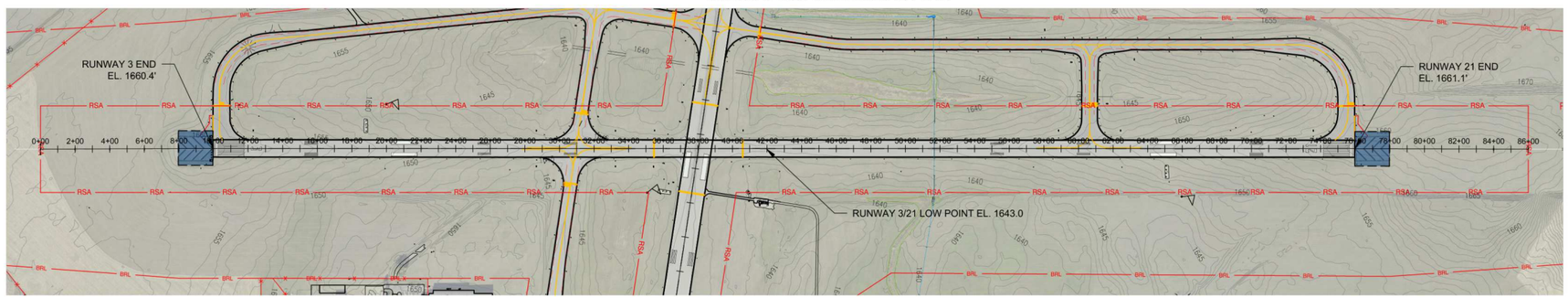


RUNWAY 13/31 CENTERLINE PLAN

6°0' E
±0°24'
Δ 0°6' W /year
AUG 2018
TRUE
0 400 800

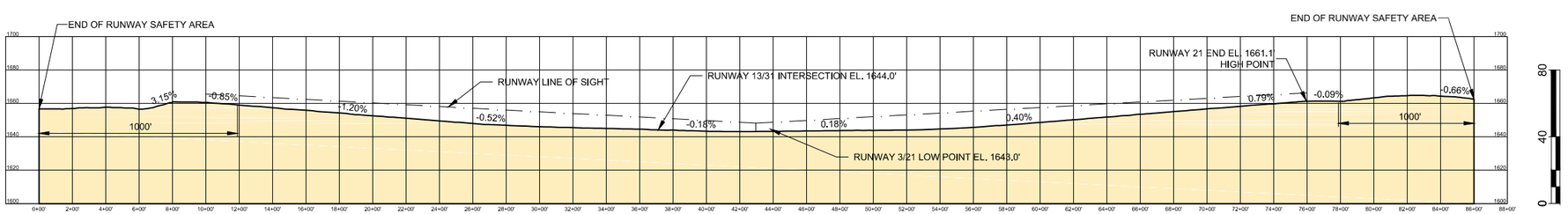
REVISIONS & NOTES		
NO.	DESCRIPTION	DATE
NOTES:		

RUNWAY 3/21 CENTERLINE PLAN



6°0' E
±0°24'
Δ 0°6' W /year
AUG 2018
TRUE
0 400 800

DRAWING LEGEND	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE&EASEMENTS)		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
RUNWAY SAFETY AREA	RSA	
AIRPORT SECURITY FENCE (8 feet)		
PRECISION OBSTACLE FREE ZONES (POFZ)		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		



RUNWAY 3/21 CENTERLINE PROFILE

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SHEET CONTENTS
RUNWAY CENTERLINE PROFILES

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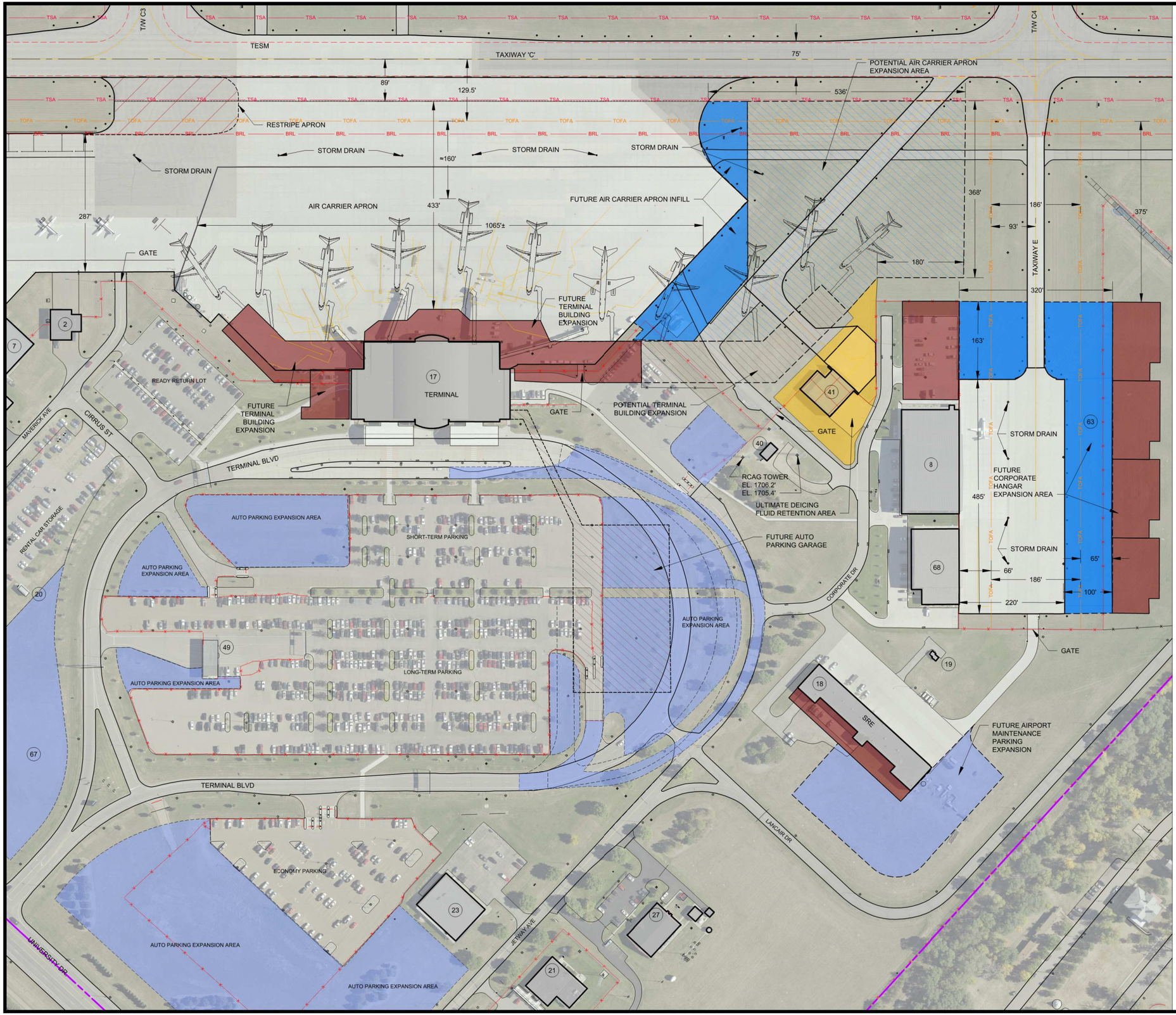


REVISIONS & NOTES

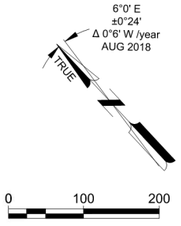
NO.	DESCRIPTION	DATE

NOTES:

BUILDING LEGEND

EXT	ULT	DESCRIPTION	TOP ELEV.
2		OPS BLDG/EMERGENCY GENERATOR	1665.2'
7		BIS AERO CENTER HANGAR	1671.5'
8		CORP. HANGAR/OFFICE	1679.8'
17		AIRLINE TERMINAL/AIRPORT ADMIN BUILDING	1717.0'
18		AIRPORT MAINTENANCE BUILDING	1675.7'
19		LIFT STATION #2	1658.8'
20		LIFT STATION #1	1660.4'
21		EMER. MANAGEMENT & COMBINED COMM. CENTER	1670.3'
23		FAA DAK-MINN ADO OFFICE / TECH OPS	1693.9'
27		NATIONAL WEATHER SERVICE	1676.6'
40		FAA REMOTE TRANSMITTER/RCAG TOWERS	1657.5'
41*		CITY HANGAR (TO BE REMOVED)	1671.7'
48		EXECUTIVE AIR TAXI	1676.3'
49		EXISTING PAY PARKING LOT EXIT PLAZA	1672.6'
	63	CORPORATE AVIATION AREA	
	67	RENTAL CAR STORAGE LOT	
68		CORP. HANGAR/OFFICE	1680.8'

* TO BE REMOVED OR RELOCATED



DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE&EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
FUTURE PAVED ROADS / PARKING		
RUNWAY PROTECTION ZONE		
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVEILLANCE RADAR CRICITAL AREA (ACA)	ACA	
AIRPORT SECURITY FENCE (8 feet)		
PRECISION OBSTACLE FREE ZONES (POFZ)		
FUEL STORAGE AREA		
AIRPORT BEACON		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		
AIRPORT REFERENCE POINT (ARP)		
FUTURE DEVELOPMENT AREA		
TAXIWAY EDGE SAFETY MARGIN (TESM)		

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SHEET CONTENTS
TERMINAL AREA PLAN

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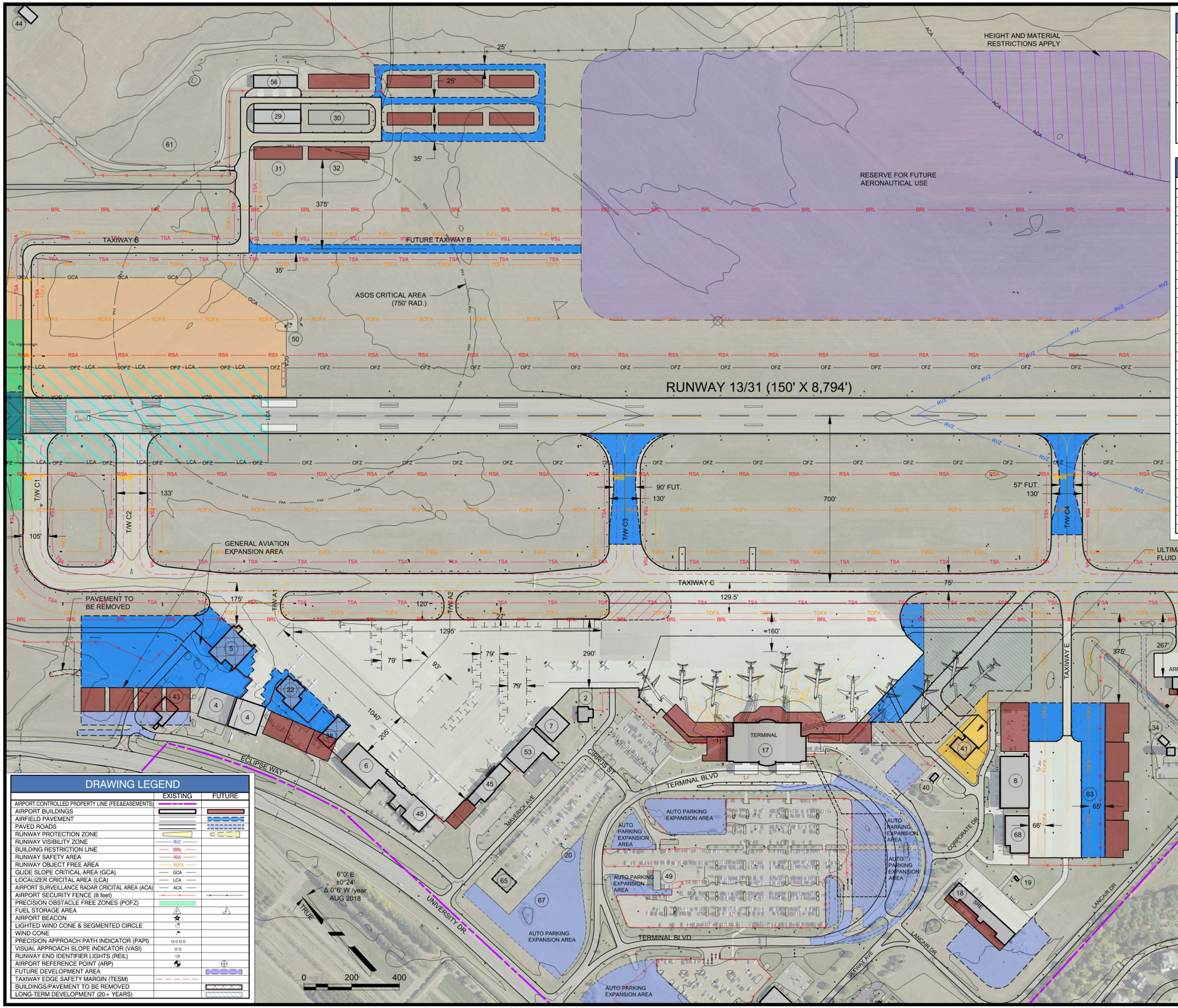

DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE&EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVELLANCE RADAR CRICITAL AREA (ACA)	ACA	
AIRPORT SECURITY FENCE (8 feet)		
PRECISION OBSTACLE FREE ZONES (POFZ)		
FUEL STORAGE AREA		
AIRPORT BEACON		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		
AIRPORT REFERENCE POINT (ARP)		
FUTURE DEVELOPMENT AREA		
TAXIWAY EDGE SAFETY MARGIN (TESM)		
BUILDINGS/PAVEMENT TO BE REMOVED		
LONG-TERM DEVELOPMENT (20+ YEARS)		

REVISIONS & NOTES

NO.	DESCRIPTION	DATE

NOTES:

BUILDING LEGEND

EXT	ULT	DESCRIPTION	TOP ELEV.
2		OPS BLDG/EMERGENCY GENERATOR	1665.2'
4		BIS AERO CENTER HANGAR	1671.5'
5*		CITY HANGAR (TO BE REMOVED)	1690.9'
6		EXECUTIVE AIR TAXI	1696.5'
7		BIS AERO CENTER HANGAR	1671.5'
14		AIRPORT FIRE DEPARTMENT (ARFF)	1685.6'
17		AIRLINE TERMINAL BUILDING	1717.0'
18		AIRPORT MAINTENANCE BUILDING	1675.7'
19		LIFT STATION #2	1658.8'
20		LIFT STATION #1	1660.4'
22*		FBO/NDAC (TO BE RELOCATED)	1669.6'
29		AEROSTOR CONDO #1	1677.8'
30		AREA 51 HANGAR ASSOCIATION	
	31	T-HANGAR SITE C	
	32	T-HANGAR SITE D	
34		FAA ATCT GARAGE & EMERGENCY GENERATOR	1660.9'
37		BISMARCK AERO CENTER FUEL FARM	1673.0'
38*		WAY-POINT AVIONICS (TO BE REMOVED)	1677.2'
40		FAA REMOTE TRANSMITTER	1657.5'
41*		NDDOT HANGAR (TO BE REMOVED)	1671.7'
43*		MEISNER OFFICE BUILDING (TO BE REMOVED)	1664.9'
44		STORAGE BUILDING	1691.7'
45		BIS AERO CENTER	1674.7'
46		FAA AIR TRAFFIC CONTROL TOWER	1733.4'
48		EXECUTIVE AIR TAXI	1676.3'
49		EXISTING PAY PARKING LOT EXIT PLAZA	1672.6'
50		FAA GLIDE SLOPE - RWY. 13	1700.7'
53		BIS AERO CENTER	
54		EXECUTIVE AIR FUEL FARM	1658.5'
56		BEYER HANGAR	
	60	SNOW REMOVAL EQUIPMENT (SRE) BUILDING	
	61	T-HANGARS	
	63	CORPORATE AVIATION AREA	
	64	ELECTRICAL VAULT AREA	
	65	CAR WASH FACILITY	
	67	RENTAL CAR STORAGE LOT	

* TO BE REMOVED OR RELOCATED

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SHEET CONTENTS

BUILDING AREA PLAN - NORTH

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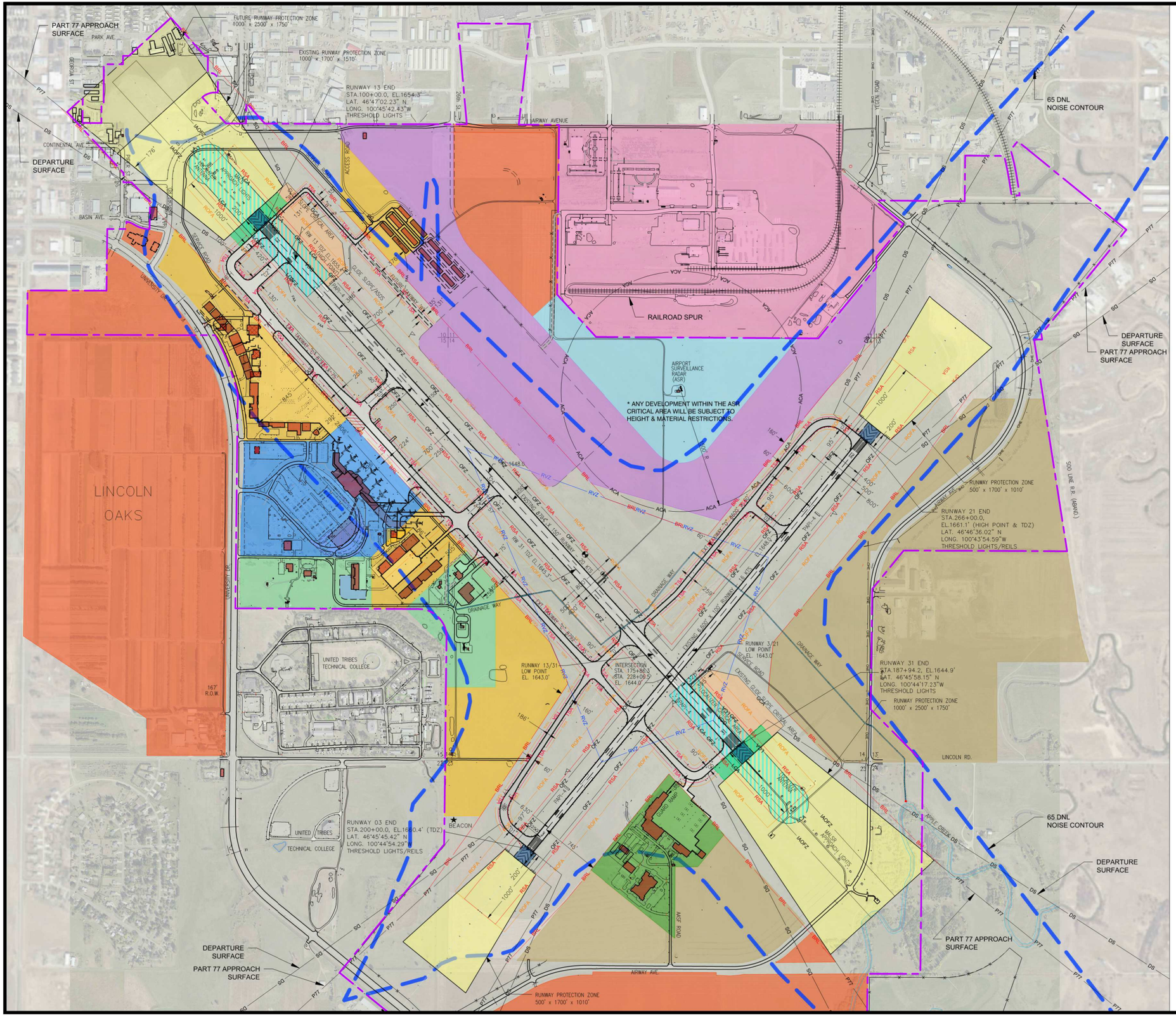
PART 77 APPROACH SURFACE
FUTURE RUNWAY PROTECTION ZONE 1000' x 2500' x 1750'
EXISTING RUNWAY PROTECTION ZONE 1000' x 1700' x 1510'
RUNWAY 13 END STA.100+00.0, EL.1654.3' LAT. 46°47'02.23" N LONG. 100°45'42.43"W THRESHOLD LIGHTS
65 DNL NOISE CONTOUR
DEPARTURE SURFACE
RAILROAD SPUR
AIRPORT SURVEILLANCE RADAR (ASR)
* ANY DEVELOPMENT WITHIN THE ASR CRITICAL AREA WILL BE SUBJECT TO HEIGHT & MATERIAL RESTRICTIONS.
DEPARTURE SURFACE PART 77 APPROACH SURFACE
RUNWAY PROTECTION ZONE 500' x 1700' x 1010'
RUNWAY 21 END STA.266+00.0, EL.1661.1' (HIGH POINT & TDZ) LAT. 46°46'36.02" N LONG. 100°43'54.59"W THRESHOLD LIGHTS/REILS
LINCOLN OAKS
UNITED TRIBES TECHNICAL COLLEGE
RUNWAY 13/31 LOW POINT EL. 1643.0'
INTERSECTION STA. 175+86.3 STA. 228+06.5 EL. 1644.0'
RUNWAY 31 END STA.187+94.2, EL.1644.9' LAT. 46°45'58.15" N LONG. 100°44'17.23"W THRESHOLD LIGHTS
RUNWAY PROTECTION ZONE 1000' x 2500' x 1750'
RUNWAY 03 END STA.200+00.0, EL.1650.4' (TDZ) LAT. 46°45'45.42" N LONG. 100°44'54.29" THRESHOLD LIGHTS/REILS
BEACON
65 DNL NOISE CONTOUR
DEPARTURE SURFACE
PART 77 APPROACH SURFACE
RUNWAY PROTECTION ZONE 500' x 1700' x 1010'
AIRWAY AVENUE
LINCOLN RD.
ACCESS ROAD
DRAINAGE WAY
UNIVERSITY DR.
CONTINENTAL AVE
BASIN AVE
PARK AVE
YEGEN ROAD
ASH ROAD
TRIPLE CREEK DR.
500' LINE R.R. (ABAN'D.)
6°0' E
±0°24'
Δ 0°6' W /year
AUG 2018
TRUE
0
600
1200

LAND USE LEGEND

	TERMINAL
	GENERAL AVIATION
	SUPPORT FACILITIES
	FUTURE AERONAUTICAL USE *
	AVIATION INDUSTRIAL
	COMMERCIAL DEVELOPMENT
	NPCC *
	NPCC SUPPORT *
	NATIONAL GUARD
	65 DNL NOISE CONTOUR

REVISIONS & NOTES

NO.	DESCRIPTION	DATE

NOTES:
* ANY DEVELOPMENT WITHIN THE ASR CRITICAL AREA WILL BE SUBJECT TO HEIGHT & MATERIAL RESTRICTIONS.

CITY OF BISMARCK ZONING ORDINANCE TITLE 10 CHAPTER 10-09

* SURROUNDING LAND USE SHOWN IN BISMARCK AIRPORT MASTER PLAN CHAPTER 1

DRAWING LEGEND

	EXISTING	FUTURE
AIRPORT CONTROLLED PROPERTY LINE (FEE&EASEMENTS)		
AIRPORT BUILDINGS		
AIRFIELD PAVEMENT		
PAVED ROADS		
RUNWAY PROTECTION ZONE		
RUNWAY VISIBILITY ZONE	RVZ	
BUILDING RESTRICTION LINE	BRL	
OBSTACLE FREE ZONE	OFZ	
RUNWAY SAFETY AREA	RSA	
RUNWAY OBJECT FREE AREA	ROFA	
GLIDE SLOPE CRITICAL AREA (GCA)	GCA	
LOCALIZER CRICITAL AREA (LCA)	LCA	
AIRPORT SURVEILLANCE RADAR CRICITAL AREA (ACA)	ACA	
PRECISION OBSTACLE FREE ZONES (POFZ)		
FUEL STORAGE AREA		
AIRPORT BEACON		
LIGHTED WIND CONE & SEGMENTED CIRCLE		
WIND CONE		
PRECISION APPROACH PATH INDICATOR (PAPI)		
VISUAL APPROACH SLOPE INDICATOR (VASI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		
AIRPORT REFERENCE POINT (ARP)		

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SHEET CONTENTS

AIRPORT LAND USE PLAN

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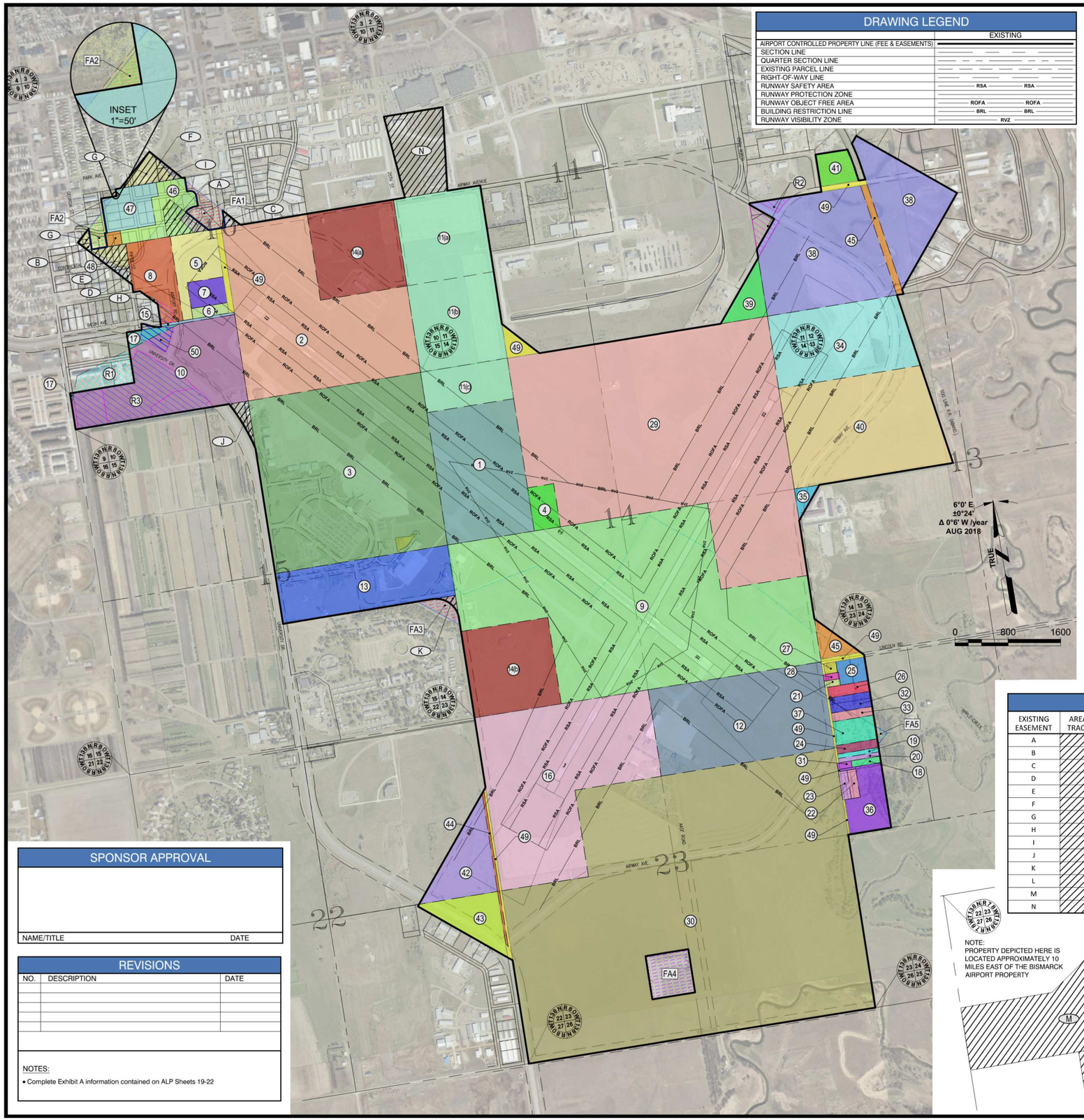


DRAWING LEGEND

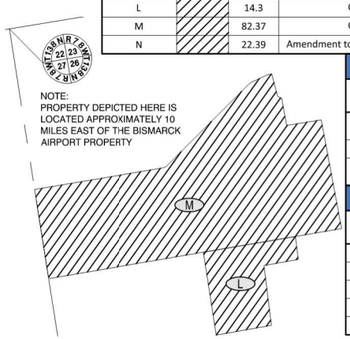
	EXISTING
AIRPORT CONTROLLED PROPERTY LINE (FEE & EASEMENTS)	
SECTION LINE	
QUARTER SECTION LINE	
EXISTING PARCEL LINE	
RIGHT-OF-WAY LINE	
RUNWAY SAFETY AREA	RSA RSA
RUNWAY PROTECTION ZONE	
RUNWAY OBJECT FREE AREA	ROFA ROFA
BUILDING RESTRICTION LINE	BRL BRL
RUNWAY VISIBILITY ZONE	RVZ

EXISTING PARCEL TABLE

EXISTING TRACT	AREA TRACT	AREA +/- (ACRES)	GRANTEE	DATE RECORDED	TYPE OF INSTRUMENT	FEDERAL PROJECT NUMBER
1		61.7	City of Bismarck	10/14/1940	WARRANTY DEED	9-32-035-801
2		120.4	City of Bismarck	10/22/1940	WARRANTY DEED	9-32-035-801
3		160.4	City of Bismarck	12/26/1947	QUIT CLAIM DEED	9-32-035-801
4		6.0	City of Bismarck	10/26/1948	QUIT CLAIM DEED	9-32-035-801
5		13.6	City of Bismarck	1/5/1955	WARRANTY DEED	9-32-035-504
6		2.0	City of Bismarck	10/7/1955	WARRANTY DEED	9-32-035-504
7		5.0	City of Bismarck	10/19/1955	CONDEMNATION	9-32-035-504
8		16.6	City of Bismarck	7/19/1956	WARRANTY DEED	9-32-035-0705
9		241.4	City of Bismarck	5/15/1959	CONDEMNATION	9-32-035-5907
10		60.3	City of Bismarck	8/10/1961	CONDEMNATION	9-32-035-C208
11(a)(b)(c)		99.3	City of Bismarck	6/2/1962	CONDEMNATION	9-32-035-6309
12		80.5	City of Bismarck	6/14/1962	CONDEMNATION	9-32-035-C208
13		46.8	City of Bismarck	10/10/1963	QUIT CLAIM DEED	QUIT CLAIM DEED (From U.S.A.)
14(a)(b)		40.1	City of Bismarck	1/8/1964	CONDEMNATION	9-32-035-C410
15		3.4	City of Bismarck	4/10/1964	WARRANTY DEED	Unknown
16		120.8	City of Bismarck	2/19/1968	CONDEMNATION	8-38-0003-01
17		4.0	City of Bismarck	3/17/1970	WARRANTY DEED	9-32-035-C208
18		1.0	City of Bismarck	6/21/1974	WARRANTY DEED	8-38-0003-04
19		0.9	City of Bismarck	7/10/1974	WARRANTY DEED	8-38-0003-04
20		0.9	City of Bismarck	7/19/1974	WARRANTY DEED	8-38-0003-04
21		0.5	City of Bismarck	8/26/1974	WARRANTY DEED	8-38-0003-04
22		1.3	City of Bismarck	8/26/1974	WARRANTY DEED	8-38-0003-04
23		1.3	City of Bismarck	8/27/1974	WARRANTY DEED	8-38-0003-04
24		1.9	City of Bismarck	9/9/1974	WARRANTY DEED	8-38-0003-04
25		3.6	City of Bismarck	9/9/1974	WARRANTY DEED	8-38-0003-04
26		2.4	City of Bismarck	9/9/1974	WARRANTY DEED	8-38-0003-04
27		0.7	City of Bismarck	10/9/1974	WARRANTY DEED	8-38-0003-04
28		0.5	City of Bismarck	10/9/1974	WARRANTY DEED	8-38-0003-04
29		275.7	City of Bismarck	1/2/1975	CONDEMNATION	8-38-0003-04
30		432.8	City of Bismarck	4/1/1975	CONDEMNATION	8-38-0003-04
31		0.5	City of Bismarck	4/19/1975	WARRANTY DEED	8-38-0003-04
32		3.3	City of Bismarck	9/30/1975	WARRANTY DEED	8-38-0003-04
33		1.9	City of Bismarck	10/21/1975	WARRANTY DEED	8-38-0003-04
34		52.7	City of Bismarck	2/11/1976	WARRANTY DEED	8-38-0003-04
35		2.1	City of Bismarck	4/27/1976	WARRANTY DEED	8-38-0003-04
36		12.0	City of Bismarck	8/24/1976	CONDEMNATION	8-38-0003-04
37		5.2	City of Bismarck	12/16/1976	CONDEMNATION	8-38-0003-04
38		36.0	City of Bismarck	1/21/1977	CONDEMNATION	8-38-0003-04
39		7.3	City of Bismarck	3/18/1977	QUIT CLAIM DEED	8-38-0003-04
40		81.0	City of Bismarck	4/13/1977	CONDEMNATION	8-38-0003-04
41		6.1	City of Bismarck	9/29/1981	WARRANTY DEED	6-38-0003-08
42		20.6	City of Bismarck	5/27/1982	QUIT CLAIM DEED	6-38-0003-08
43		14.6	City of Bismarck	5/27/1982	CONDEMNATION	6-38-0003-08
44		1.72	City of Bismarck	1/9/2007	QUIT CLAIM DEED	Unknown
45		8.3	City of Bismarck	1/2/2008	WARRANTY DEED	Unknown
46		12.6	City of Bismarck	12/7/2009	WARRANTY DEED	Unknown
47		10.8	City of Bismarck	12/7/2009	WARRANTY DEED	Unknown
48		1.1	City of Bismarck	6/21/2010	WARRANTY DEED	Unknown
49		16.2	City of Bismarck	3/1/2011	PLAT	No Grant
50		3.0	Bismarck Municipal Airport	5/12/2017	QUIT CLAIM DEED	No Grant

EXISTING AIRPORT EASEMENT TABLE

EXISTING EASEMENT	AREA TRACT	AREA (acres)	NATURE OF INTEREST	GRANTEE	DATE RECORDED	FEDERAL PROJECT NUMBER
A		4.66	Clear Zone Easement	City of Bismarck	9/9/1957	9-32-035-5706
B		0.26	Avigation and Hazard Easement	Bismarck Municipal Airport	5/13/1970	8-38-0003-01
C		0.70	Avigation and Hazard Easement	Bismarck Municipal Airport	6/22/1970	8-38-0003-01
D		0.70	Avigation and Hazard Easement	Bismarck Municipal Airport	9/11/1970	8-38-0003-01
E		3.50	Avigation and Hazard Easement	Bismarck Municipal Airport	9/11/1970	8-38-0003-01
F		0.39	Avigation and Hazard Easement	Bismarck Municipal Airport	10/20/1970	8-38-0003-01
G		4.14	Avigation and Hazard Easement	Bismarck Municipal Airport	10/20/1970	8-38-0003-01
H		0.12	Avigation and Hazard Easement	Bismarck Municipal Airport	10/20/1970	8-38-0003-01
I		1.22	Avigation and Hazard Easement	Bismarck Municipal Airport	4/26/1971	8-38-0003-01
J		2.16	Access Easement	City of Bismarck	6/8/2004	Unknown
K		0.61	Access Easement	City of Bismarck	7/12/2005	Unknown
L		14.3	Conservation Easement Agreement	City of Bismarck	11/17/2014	AIP 53
M		82.37	Conservation Easement Agreement	City of Bismarck	11/17/2014	AIP 53
N		22.39	Amendment to Easement Granted in Condemnation (Avigation)	City of Bismarck	10/27/2015	9-32-035-6309



NOTE:
PROPERTY DEPICTED HERE IS LOCATED APPROXIMATELY 10 MILES EAST OF THE BISMARCK AIRPORT PROPERTY

FAA RELEASE TABLE

TRACT	AREA TRACT	AREA +/- (ACRES)	DATE RECORDED	TYPE OF INSTRUMENT	FEDERAL PROJECT NUMBER
R1		7.49	7/25/1973	POST APPROVAL OF LAND EXCHANGE	9-32-035-C208
R2		4.78	9/5/2013	RELEASE FOR LAND SALE	8-38-0003-04
R3		33.3	9/11/2017	RELEASE FROM AERONAUTICAL	9-32-035-C208 9-32-035-705

ULTIMATE PARCEL TABLE

ULTIMATE TRACT	AREA TRACT	AREA +/- (ACRES)	TYPE OF INSTRUMENT	OWNER
FA1		4.6		
FA2		2.4		
FA3		3.0		
FA4		10.1		
FA5		0.5		

SPONSOR APPROVAL

NAME/TITLE DATE

REVISIONS

NO.	DESCRIPTION	DATE

NOTES:
- Complete Exhibit A information contained on ALP Sheets 19-22

Mead & Hunt

Mead and Hunt, Inc.
424 S 3rd Street, Suite 107
Bismarck, ND 58504
phone: 701-566-6448
meadhunt.com

Bismarck AIRPORT

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CITY OF BISMARCK
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

ISSUED

NOT FOR CONSTRUCTION

M&H PROJECT: 2716000-140293.01
AIP NO.: 3-38-003-055-2015
DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
DO NOT SCALE DRAWINGS

SHEET CONTENTS
AIRPORT PROPERTY MAP - EXHIBIT 'A' PARCELS

SHEET NO: 19 of 22

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EXISTING PARCEL TABLE

PARCEL NUMBER	SECTION	ORIGINAL GRANT TRACT	2008 PROPERTY MAP TRACT	AREA +/-	AREA (PER DOC'S)	INTEREST	GRANTOR	GRANTEE	RECORD DOCUMENT INFORMATION	DATE RECORDED	TYPE OF INSTRUMENT	FEDERAL PROJECT NUMBER	NOTES
1	14	3	A	61.7	60.00	Fee	The Wachter Transfer Corporation	City of Bismarck	Book 231, Page 417	10/14/1940	WARRANTY DEED	9-32-035-801	South 2025' of the W1/2 of the NW1/4 Sec. 14. Judgement filed on 11/9/1948 in Book 274-Page 36 stating City of Bismarck is fee ower.
2	10	2	A	120.4	118.38	Fee	F. B. Struass and Marie Struass & Cora S. McLean	City of Bismarck	Book 237, Page 392	10/22/1940	WARRANTY DEED	9-32-035-801	S1/2 of the SE1/4 and the NW1/4 of the SE1/4 Sec. 10
3	15	1	A	160.4	160.00	Fee	United States of America	City of Bismarck	Book 268, Page 384	12/26/1947	QUIT CLAIM DEED	9-32-035-801	NE1/4 Sec. 15. Judgement filed on 11/9/1948 in Book 274-Page 36 stating City of Bismarck is fee ower.
4	14	4	A	6.0	6.00	Fee	Eugene Wachter and P. A. Wachter	City of Bismarck	Book 261, Page 346	10/26/1948	QUIT CLAIM DEED	9-32-035-801	West 3/5 of the SW1/4 of the SE1/4 of the NW 1/4 Sec. 14. Judgement filed on 11/9/1948 in Book 274-Page 36 stating City of Bismarck is fee ower.
5	10	5	B	13.6	13.64	Fee	Martin B. Monson and Olga B. Monson (1/2 Interest)- Frank E. Hedden and Helen L. Hedden (1/2 Interest)	City of Bismarck	Book 307, Pages 260 & 261	1/5/1955	WARRANTY DEED	9-32-035-504	Two - 1/2 interests in part of the N1/2 of the SW1/4 Sec. 10
6	10	7	B	2.0	2.00	Fee	John A. Hoffman and Blanche Hoffman	City of Bismarck	Book 307, Page 508	10/7/1955	WARRANTY DEED	9-32-035-504	Part of the N1/2 of the SW1/4 Sec. 10
7	10	6	B	5.0	5.00	Fee	Lawrence Schubert, Joseph Schubert and Katherine Schubert	City of Bismarck	Book 305, Page 579	10/19/1955	CONDEMNATION	9-32-035-504	Part of the N1/2 of the SW1/4 Sec. 10
8	10	8	C	16.6	20.00	Fee	Martin B. Monson and Olga B. Monson (1/2 Interest)- Frank E. Hedden and Helen L. Hedden (1/2 Interest)	City of Bismarck	Book 318, Pages 45 & 46	7/19/1956	WARRANTY DEED	9-32-035-0705	Two - 1/2 interests in part of the SW1/4 Sec. 10. 3.36 acres of the original 20.00 acre parcel was sold to Raymond W. Heinemeyer and Lloyd Gribble per document # 219340, recorded May 25, 1967
9	14		D & E	241.4	240.00	Fee	Helen Wachter	City of Bismarck	Book 335, Page 25	5/15/1959	CONDEMNATION	9-32-035-5907	N1/2 of the SW1/4; NW1/4 of the SE1/4; S1/2 of the SE 1/4; SE1/4 of the SW1/4, all in Sec. 14 (Grant document was not provided)
10	10		F	60.3	67.8	Fee	Wachter, ETAL	City of Bismarck	Book 349, Page 76	8/10/1961	CONDEMNATION	9-32-035-C208	Part of the S1/2 of the SW1/4 Sec. 10; 7.49 acres of the original 67.8 acres sold to Wachter, ETAL per document # 233111 recorded March 17, 1970
11(a)	11	15	G1	40	40	Fee	Wachter, ETAL	City of Bismarck	Book 349, Page 426	6/2/1962	CONDEMNATION	9-32-035-6309	NW1/4SW1/3 Sec. 11
11(b)	11	14	G1	40	40	Fee	Wachter, ETAL	City of Bismarck	Book 349, Page 426	6/2/1962	CONDEMNATION	9-32-035-6309	SW1/4SW1/3 Sec. 11
11(c)	14	13	G1	19.3	18.64	Fee	Wachter, ETAL	City of Bismarck	Book 349, Page 426	6/2/1962	CONDEMNATION	9-32-035-6309	W1/2 less the South 2025' of the NW1/4 Sec. 14
12	23	12	F	80.5	80.00	Fee	Oscar T. Solberg and Grace D. Solberg	City of Bismarck	Book 349, Page 451	6/14/1962	CONDEMNATION	9-32-035-C208	N1/2 of the NE1/4 Sec. 23
13	15	16	H	46.8	46.70	Fee	United States of America	City of Bismarck	Book 359, Page 582	10/10/1963	QUIT CLAIM DEED	QUIT CLAIM DEED (From U.S.A.)	North 770' of the SE1/4 Sec. 15
14(a)	10	17	I	40.1	40	Fee	Square Butte, a Partnership	City of Bismarck	Book 361, Page 124	1/8/1964	CONDEMNATION	9-32-035-C410	SW1/4 of the SW1/4 Sec. 14
14(b)	14	18	I	40.2	40	Fee	Square Butte, a Partnership	City of Bismarck	Book 361, Page 124	1/8/1964	CONDEMNATION	9-32-035-C410	NE1/4 of the SE1/4 Sec. 10
15	10			3.4	3.36	Fee	Raymond W. Heinemeyer and Lloyd Gribble	City of Bismarck	Book 365, Page 24	4/10/1964	WARRANTY DEED	No Grant	Part of the N1/2 of the SW1/4 Sec. 10
16	23	19	K	120.8	120.00	Fee	Oscar T. Solberg	City of Bismarck	Doc. No. 222994	2/19/1968	CONDEMNATION	8-38-0003-01	NW1/4 of the NW1/4; NE1/4 of the NW1/4; and SW1/4 of the NW1/4, all in Sec. 23
17	10	4, 5 & 7	L & F	4.0	3.96	Fee	Trustees of Wachter Real Estate Trust	City of Bismarck	Doc. No. 233111	3/17/1970	WARRANTY DEED	9-32-035-C208	Part of the SW1/4 Sec. 10 (3 small parcels)
18	24	H	M	1.0	1.00	Fee	Matt R. Schafer and Diane J. Schafer	City of Bismarck	Doc. No. 256305	6/21/1974	WARRANTY DEED	8-38-0003-04	Part of Lot 12, Lincoln Outlots
19	24	H	M	0.9	0.95	Fee	N. A. Nissen and Ruth Nissen	City of Bismarck	Doc. No. 256680	7/10/1974	WARRANTY DEED	8-38-0003-04	N1/2 of Lot 11, Lincoln Outlots
20	24	H	M	0.9	0.95	Fee	W. H. Schoon and Irene A. Schoon	City of Bismarck	Doc. No. 256900	7/19/1974	WARRANTY DEED	8-38-0003-04	S1/2 of Lot 11, Lincoln Outlots
21	24	H	M	0.5	0.46	Fee	Alice Heiser	City of Bismarck	Doc. No. 257670	8/26/1974	WARRANTY DEED	8-38-0003-04	South 99' of Lot 2 & part of Lot 3, Lincoln Outlots
22	24	H	M	1.3	1.24	Fee	Lawrence L. Tice and Eleanor M. Tice	City of Bismarck	Doc. No. 257669	8/26/1974	WARRANTY DEED	8-38-0003-04	Lot 15 and the E 1/2 of Lot 14, Lincoln Outlots, and a 33' strip lying north of and adjacent to said tract
23	24	H	M	1.3	1.01	Fee	Paul E. Kuetemeyer and Kathleen L. Kuetemeyer	City of Bismarck	Doc. No. 257700	8/27/1974	WARRANTY DEED	8-38-0003-04	Lot 13 and the W 1/2 of Lot 14 Lincoln Outlots, and a 33' strip lying north of and adjacent to said tract
24	24	H	M	1.9	1.90	Fee	Frank Mickelson, Ray Mickelson and Mabel Mickelson	City of Bismarck	Doc. No. 257936	9/9/1974	WARRANTY DEED	8-38-0003-04	Lot 10, Lincoln Outlots
25	24	H	M	3.6		Fee	Charles J. Holkup and Pauline Holkup	City of Bismarck	Doc. No. 257938	9/9/1974	WARRANTY DEED	8-38-0003-04	Lot 4 and part of Lot 3, Lincoln Outlots
26	24	H	M	2.4	2.37	Fee	Charles J. Holkup and Pauline Holkup	City of Bismarck	Doc. No. 257937	9/9/1974	WARRANTY DEED	8-38-0003-04	Lot 5, Lincoln Outlots
27	24	H	M	0.7	0.71	Fee	Engelbert Ternes and Ramona Ternes	City of Bismarck	Doc. No. 258552	10/9/1974	WARRANTY DEED	8-38-0003-04	Lot 1, Lincoln Outlots
28	24	H	M	0.5	0.46	Fee	Engelbert Ternes and Ramona Ternes	City of Bismarck	Doc. No. 258549	10/9/1974	WARRANTY DEED	8-38-0003-04	Part of Lots 2 & 3, Lincoln Outlots
29	14	F	M	275.7	274.00	Fee	Wachter, ETAL	City of Bismarck	Doc. No. 259995	1/2/1975	CONDEMNATION	8-38-0003-04	NE1/4 of the SE1/4; NE1/4; and the E1/2 of the NW1/4, LESS the West 3/5 of the SW1/4 of the SE1/4 of the NW1/4, all in Sec. 14
30	23	G	M	432.8	430.00	Fee	Dennis Theodore Solberg and John Daly Solberg	City of Bismarck	Doc. No. 261105	4/1/1975	CONDEMNATION	8-38-0003-04	S1/2 of the NE1/4; SE1/4 of the NW1/4; SE1/4; and the SW1/4 LESS the NE1/4 of the SE1/4 of the SW1/4, all in Sec. 23
31	24	H	M	0.5	.425	Fee	Donald W. Cook and J. Virginia Cook	City of Bismarck	Doc. No. 260955	4/19/1975	WARRANTY DEED	8-38-0003-04	Part of Lot 12, Lincoln Outlots
32	24	H	M	3.3	3.32	Fee	William H. Bement	City of Bismarck	Doc. No. 265008	9/30/1975	WARRANTY DEED	8-38-0003-04	Lots 6 and 7, Lincoln Outlots
33	24	H	M	1.9	1.90	Fee	R. D. Bowman	City of Bismarck	Doc. No. 265541	10/21/1975	WARRANTY DEED	8-38-0003-04	Lot 8, Lincoln Outlots
34	13	B	M	52.7		Fee	John Kenneth Bauman and Beth H. Bauman	City of Bismarck	Doc. No. 267692	2/11/1976	WARRANTY DEED	8-38-0003-04	Part of the W1/2 Sec.13
35	13	D	M	2.1	2.13	Fee	Christ P. Yegen and Lydia Yegen	City of Bismarck	Doc. No. 278121	4/27/1976	WARRANTY DEED	8-38-0003-04	Part of the NW1/4 of the SW1/4 of Sec. 13 (triangle tract)
36	24	H	M	12.0	11.63	Fee	Wayne L. Lindteigen and Shyrll G. Lindteigen	City of Bismarck	Doc. No. 272123	8/24/1976	CONDEMNATION	8-38-0003-04	Lot 16 and the South 33' of Lot 12, Lincoln Outlots
37	24	H	M	5.2	5.22	Fee	Marie Kidder aka Marie K. Larsen	City of Bismarck	Doc. No. 274869	12/16/1976	CONDEMNATION	8-38-0003-04	Lot 9, Lincoln Outlots
38	12	A	M	36.0	35.96 (TRACT 1) 72.72 (TRACT 3)	Fee	Patterson Land Company	City of Bismarck	Doc. No. 275646	1/21/1977	CONDEMNATION	8-38-0003-04	Two tracts in the S1/2 Sec. 12. Three separate tracts were sold (Auditor's Lots A, B, & C of Lot 2 as recorded as Doc. #'s 798842, 814514, & 862044. Federal project number does not include the property east of the railroad.
39	11	E	M	7.3	7.31	Fee	State of North Dakota	City of Bismarck	Doc. No. 277015	3/18/1977	QUIT CLAIM DEED	8-38-0003-04	SE1/4 of the SE1/4 Sec. 11 (triangle tract)
40	13	C	M	81.0	81.16	Fee	Harley B. Thom and Helen R. Thom and Dakota National Bank of Bismarck	City of Bismarck	Doc. No. 277693	4/13/1977	CONDEMNATION	8-38-0003-04	Part of the W1/2 Sec. 13
41	12	2	M	6.1		Fee	Sandra K. Eggebraten and Dean Eggebratem	City of Bismarck	Doc. No. 324997	9/29/1981	WARRANTY DEED	6-38-0003-08	South 95' Lot 4 except the West 1040' thereof, and Lot 5 except the West 1040' thereof, all inf Duemeland Subdivision
42	22	3	N	20.6	20.64	Fee	Rhea McDonald; Catheriine Layer and Wesley Layer; Mary Ann Brown; Betty Leuwer; James D. McDonald; Dan J. McDonald and Leone M. McDonald	City of Bismarck	Doc. No. 329585	5/27/1982	QUIT CLAIM DEED	6-38-0003-08	Part of the E1/2 of the NE1/4 Sec. 22
43	22	3	N	14.6	14.58	Fee	Dan J. McDonald and Leona M. McDonald	City of Bismarck	Doc. No. 329586	5/27/1982	CONDEMNATION	6-38-0003-08	Part of the E1/2 of the SE1/4 Sec. 22
44	22		N		1.72		North Dakota Department of Transportation	City of Bismarck	Doc. No. 666365	1/9/2007	QUIT CLAIM DEED	Unknown	Part of the E1/2 Sec. 22 per right-of-way plat
45	13		V & W	8.3	4.97+/-	Fee	Lincoln Land Development, LLP	City of Bismarck	Doc. No. 683529	1/2/2008	WARRANTY DEED	Unknown	Triangle tract in the SW1/4 of the SW1/4 Sec. 13 & a strip of land 100 ft wide in Sec 12
46	10		D1 & K1	12.6		Fee	Steve & Karen McCormick	City of Bismarck	Doc. No. 718496	12/7/2009	WARRANTY DEED	Unknown	Lots 4, 5, 6, & 7 of Block3; Lots 3, 4, 5, 6, 7, 8, 9, 10, & 11 of Block 4; Lots 1, 2, 3, 4, 5, & 6 of Block 5; Lots 8 & 9 of Block 6, all in Shamrock Industrial Park
47	10			10.8		Fee	Cathedral of Holy Spirit	City of Bismarck	Doc. No. 718497	12/7/2009	WARRANTY DEED	Unknown	Lots 1, 2, 3, 4, 6, 7, 8, 9, & 10 of Block2; Lots 1, 2, & 3 of Block 3; Lots 1, 2, 12, & 13 of Block 4; all in Shamrock Industrial Park
48	10		K1	1.1		Fee	Bismarck Hockey Boosters, Inc.	City of Bismarck	Doc. No. 727387	6/21/2010	WARRANTY DEED	Unknown	Lots 6 & 7 of Block 6, Shamrock Industrial Park
49				16.2			City of Bismarck/ ND Association of Soil Conservation Districts	Public	Doc. No. 741481	3/1/2011	PLAT	No Grant	Bismarck Airport Addition
50	10			3.0		Fee	City of Bismarck	Bismarck Municipal Airport	Doc. No. 856710	5/12/2017	QUIT CLAIM DEED	No Grant	Lot 1 of Block 8, Bismarck Aiport Addition

EXISTING AIRPORT EASEMENT TABLE

EXISTING EASEMENT	AREA (acres)	ORIGINAL GRANT TRACT ★	NATURE OF INTEREST	GRANTEE	GRANTOR	DATE RECORDED	RECORD DOCUMENT INFORMATION	FEDERAL PROJECT NUMBER	NOTES
A	4.66	9	Clear Zone Easement	City of Bismarck	Northern Improvement Company	9/9/1957	Book 319, Page 494	9-32-035-5706	Part of SE1/4 NW1/4 Sec. 10-T138-R80
B	0.26	A	Avigation and Hazard Easement	Bismarck Municipal Airport	David W. Wahl and Sharon J. Wahl	5/13/1970	Doc. No. 233566	8-38-0003-01	Part of the SW1/4SW1/4NW1/4 Sec. 10
C	0.70	F	Avigation and Hazard Easement	Bismarck Municipal Airport	Supercrete Industries, Inc.	6/22/1970	Doc. No. 233976	8-38-0003-01	Part of the SW1/4SW1/4NE1/4 Sec. 10
D	0.70	H	Avigation and Hazard Easement	Bismarck Municipal Airport	Henry Stip and Beverly Stip	9/11/1970	Doc. No. 234865	8-38-0003-01	Part of the N1/2NW1/4SW1/4 Sec. 10
E	3.50	G	Avigation and Hazard Easement	Bismarck Municipal Airport	Northwest Rendering Company	9/11/1970	Doc. No. 234866	8-38-0003-01	Part of the N1/2NW1/4SW1/4 Sec. 10
F	0.39	K	Avigation and Hazard Easement	Bismarck Municipal Airport	Raymond W. Heinemeyer	10/20/1970	Doc. No. 235302	8-38-0003-01	Part of the S1/2NW1/4 Sec. 10
G	4.14	B&J	Avigation and Hazard Easement	Bismarck Municipal Airport	The Milton Rue Company	10/20/1970	Doc. No. 235303	8-38-0003-01	Part of the S1/2NW1/4 Sec. 10
H	0.12	I	Avigation and Hazard Easement	Bismarck Municipal Airport	Raymond W. Heinemeyer and Lloyd S. Gribble	10/20/1970	Doc. No. 235304	8-38-0003-01	Part of the Aero-Commercial Subdivision
I	1.22	E	Avigation and Hazard Easement	Bismarck Municipal Airport	Jean Porter and Louis C. Porter	4/26/1971	Doc. No. 237390	8-38-0003-01	Part of the S1/2NW1/4 Sec. 10
J	2.16		Access Easement	City of Bismarck	North Dakota Association of Soil Conservation Districts	6/8/2004	Doc. No. 620265	Unknown	Part of the NE1/4 NW1/4 Sec. 15-T138-R80
K	0.61		Access Easement	City of Bismarck	United Tribes Technical College Bismarck	7/12/2005		Unknown	City of Bismarck Memorandum
L	14.3		Conservation Easement Agreement	City of Bismarck	Douglas Goehring	11/17/2014	Doc. No. 815559	AIP 53	Pt. of the SW1/4 Sec. 26, T138, R78
M	82.37		Conservation Easement Agreement	City of Bismarck	Robert E. Hieb & Debra Ann Hieb	11/17/2014	Doc. No. 815560	AIP 53	Pt. of the N1/2 Sec. 26, T138, R78
N	22.39		Amendment to Easement Granted in Condemnation (Avigation)	City of Bismarck	Watcher, ETAL	10/27/2015	Doc. No. 832156	9-32-035-6309	SW1/4 NW1/4 Sec. 11

★ Federal Grant 8-38-0003-01 References "Tract C". No information was provided that identifies the location of this tract.

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CITY OF BISMARCK
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

ISSUED

NOT FOR CONSTRUCTION

M&H PROJECT: 2716000-140293.01
AIP NO.: 3-38-003-055-2015
DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
DO NOT SCALE DRAWINGS

SHEET CONTENTS

AIRPORT PROPERTY MAP - EXHIBIT 'A' PARCEL TABLES

SHEET NO. 20 of 22

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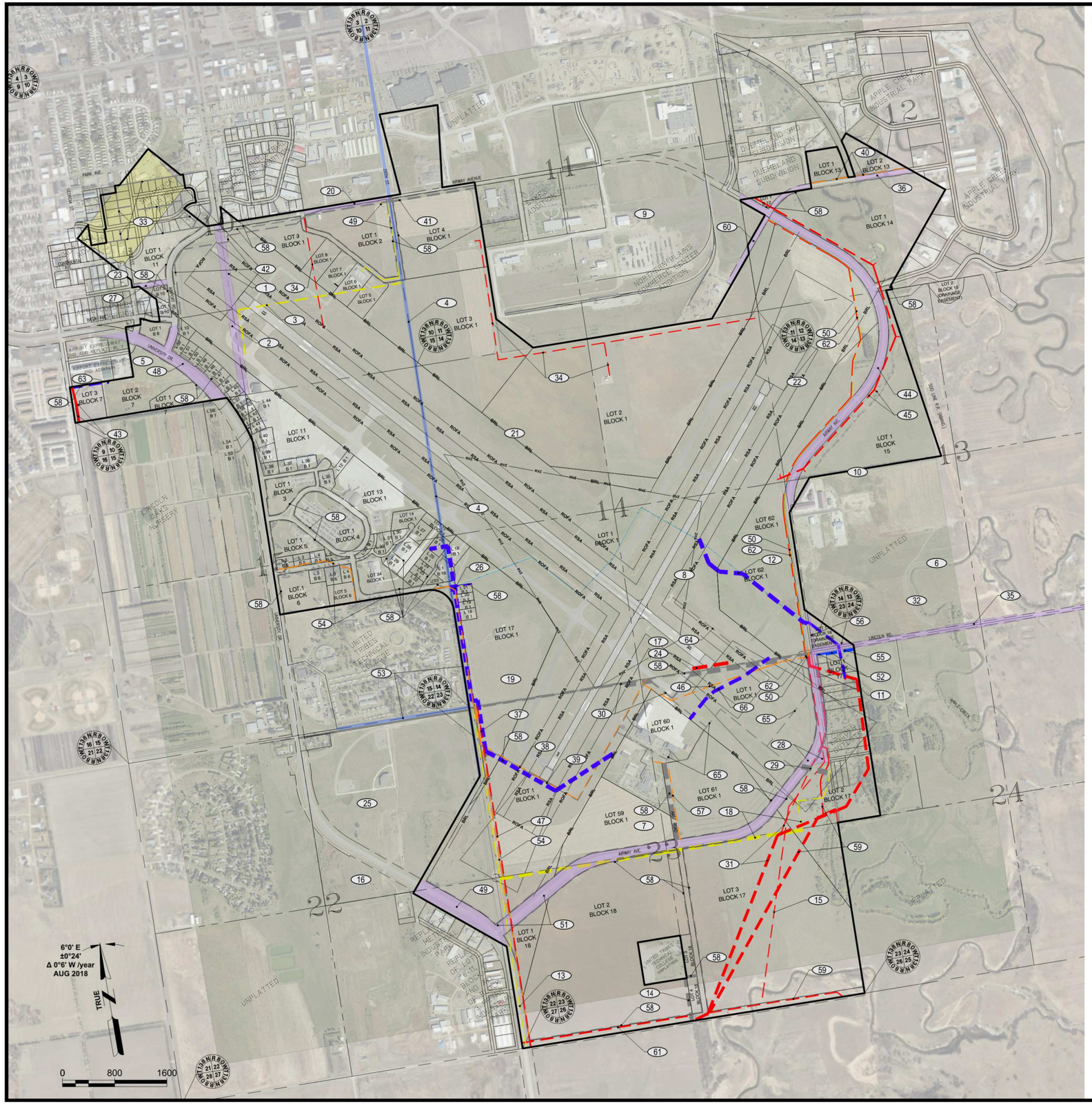

EXISTING EASEMENT TABLE

EXISTING EASEMENT	NATURE OF INTEREST	GRANTEE	DATE RECORDED
1	Right-of-Way Plat	Public	2/27/1935
2	Right-of-Way Plat	Public	5/7/1935
3	Easement Agreement	City of Bismarck	5/13/1936
4	Section Line Road Closure	Public	7/19/1940
5	Transmission Line Right-of-Way Agreement	The Dakota Public Service Company	5/5/1941
6	Easement	The Dakota Public Service Company	10/19/1945
7	Right-of-Way Easement	Capital Electric Cooperative	4/9/1954
8	Right-of-Way Easement	Capital Electric Cooperative, Inc.	4/9/1954
9	Right-of-Way Easement	Capital Elecrtric Cooperative	4/9/1954
10	Right-of-Way Easement	Capital Elecrtric Cooperative	4/9/1954
11	Drainage Ditch Easement	City of Bismarck	2/23/1950
12	Drainage Ditch Easement	City of Bismarck	2/27/1950
13	Pipeline and Telephone Line Easement	Montana-Dakota Utilities Co.	5/13/1958
14	Easement	United States of America	8/15/1958
15	Right-of-Way Easement	Capital Electric Cooperative	3/25/1959
16	Right-of-Way Easement	Capital Elecrtric Cooperative	3/23/1961
17	Right-of-Way Permit	Northwestern Bell Telephone Company	10/20/1961
18	Right-of-Way Easement	Montana-Dakota Utilities Co.	2/23/1962
19	Right-of-Way Permit	Northwestern Bell Telephone Company	6/215/1962
20	Easement	City of Bismarck	5/13/1963
21	Right-of-Way Easement	Capital Electric Cooperative, Inc.	3/4/1965
22	Right-of-Way Easement	Capital Elecrtric Cooperative	3/1/1966
23	Right-of-Way Easement	Capital Elecrtric Cooperative	3/1/1966
24	Electric Line Easement	Montana-Dakota Utilities Co.	10/23/1967
25	Right-of-Way Easement	Northwestern Bell Telephone Company	9/9/1970
26	Easement	United Tribes of ND Development Corp	2/25/1974
27	Right-of-Way Plat	Public	12/23/1974
28	Easement	Public	1/24/1978
29	Easement	Public	1/24/1978
30	Easement	Montana-Dakota Utilities Co. and Northwestern Bell Telephone Company	12/20/1978
31	Easement	Capital Electric Cooperative	12/20/1978
32	Easement	Northwestern Bell Telephone Company	4/2/1981
33	Plat	Public/City of Bismarck	4/27/1981
34	Underground Electrical Easement	Capital Elecrtric Cooperative	1/22/1982
35	Right-of-Way Easement	Burleigh County	6/20/1986
36	QCD	Public	1/2/1987
37	Right-of-Way Easement	Capital Electric Cooperative	7/23/1986
38	Easement	Northwestern Bell Telehone Company	11/18/1986
39	Easement	Mcntana Dakota Utilities	11/20/1986
40	Easement	US West Communication	10/10/1995
41	Underground Easement	US West Communications, Inc.; Montana-Dakota Utilities Co. and Sioux Fals Cable Television	10/27/1995
42	Easement	US West Communications, Inc.; Montana-Dakota Utilities Co. and Sioux Fals Cable Television	4/30/1996
43	Easement Agreement	Capital Elecrtric Cooperative	1/28/1997
44	Dedication	Public	5/28/1997
45	Easement Agreement	Capital Elecrtric Cooperative	12/29/1997
46	Easement	U. S. West Communications, Inc.	8/17/1999
47	Easement	University of Mary	5/17/2002
48	Easement	ND Department of Transportation	11/20/2002
49	Easement	Montana-Dakota Utilities Company	4/3/2003
50	Easement	Montana-Dakota Utilities Company	4/3/2003
51	Right-of-Way Plat	Public	6/6/2003
52	Easement Agreement	City of Linclon	8/31/2004
53	Section Line Road Closure	Public	8/8/2005
54	Easement Agreement	Mcntana Dakota Utilities	5/27/2006
55	Right-of-Way Easement	City of Bismarck	3/1/2011
56	Right-of-Way Easement	City of Bismarck	3/1/2011
57	Easement Agreement	Montana Dakota Utilities Co.	1/21/2011
58	Plat	Public	3/1/2011
59	Easement Agreement	Capital Elecrtric Cooperative	8/3/2011
60	Access Easement	Northern Metals, LLC	6/13/2013
61	Right-of-Way Easement	Capital Electric Cooperative	12/4/2013
62	Easement Agreement	Montana Dakota Utilities	3/10/2014
63	Easement Agreement	Paramount Builders, Inc.	6/2/2014
64	Easement Agreement	Montana Dakota Utilities & Quest Corporation	8/2/2018
65	Easement Agreement	Montana Dakota Utilities & Quest Corporation	8/2/2018
66	Easement Agreement	State of North Dakota	2/20/2018

DRAWING LEGEND

	EXISTING
ACCESS EASEMENT	
ROAD RIGHT-OF-WAY	
ELECTRICAL EASEMENT	
TELEPHONE EASEMENT	
GAS EASEMENT	
DRAINAGE EASEMENT	
GENERAL UTILITY EASEMENT	
LOT LINE	
RIGHT-OF-WAY LINE	
AIRPORT CONTROLLED PROPERTY LINE (FEE&EASEMENTS)	
RUNWAY SAFETY AREA	RSA RSA
RUNWAY PROTECTION ZONE	
RUNWAY OBJECT FREE AREA	ROFA ROFA
BUILDING RESTRICTION LINE	BRL BRL
RUNWAY VISIBILITY ZONE	RVZ

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CITY OF BISMARCK
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

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DATE:	JAN 2019
DESIGNED BY:	M&H
DRAWN BY:	JWB
CHECKED BY:	MRB

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SHEET CONTENTS

AIRPORT PROPERTY MAP - EXHIBIT 'A' EASEMENTS

SHEET NO. 21 of 22

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EXISTING EASEMENT TABLE

EXISTING EASEMENT	NATURE OF INTEREST	GRANTEE	GRANTOR	DATE RECORDED	RECORD DOCUMENT INFORMATION	Notes
1	Right-of-Way Plat	Public	North Dakota Department of Transportation	2/27/1935	Book 225, Page 30	Right-of-way plat for a 60' wide strip across the west side of the SE1/4 Sec. 10
2	Right-of-Way Plat	Public	North Dakota Department of Transportation	5/7/1935	Book 225, Page 31	Right-of-way plat for a 60' wide strip across the west side of the SE1/4 Sec. 10
3	Agreement	City of Bismarck	Montana-Dakota Utilities Company	5/13/1936	Book 228, Page 123	Agreement for a gas line to be placed in a 20' wide strip across the S1/2 of the SE1/4 Sec. 10
4	Resolution	Public	Burleigh County	7/19/1940	Book 274, Page 280	Resolution to close section line roads between Sec. 10 & 11 and between Sec. 14 & 15
5	Agreement	The Dakota Public Service Company	Wachters Transfer Corp & Wachters Incorporated	5/5/1941	Book 237, Page 501	Easement for a transmission line across a strip no more than 20' wide across the S1/2 of the SW1/4 Sec. 10
6	Easement	The Dakota Public Service Company	C.D. Yegen	10/19/1945	Book 259, Page 63	Easement for transmission line along the south side of S1/2 Sec. 13. No width defined in abstract.
7	Easement	Capital Electric Cooperative	James J. Lindley	4/9/1954	Book 308, Page 13	Blanket right-of-way easement for a transmission line over all of Sec. 23. No width defined in abstract.
8	Easement	Capital Electric Cooperative, Inc.	Paul Wachter and Eugene Wachter	4/9/1954	Book 308, Page 4	Blanket right-of-way easement for a transmission line over the SE1/4 Sec. 14. No width defined in abstract.
9	Easement	Capital Elecrtric Cooperative	Board of Administration, State of North Dakota	4/9/1954	Book 308, Page 2	Blanket right-of-way easement for a transmission line over the SE1/4 Sec. 11. No width defined in abstract.
10	Easement	Capital Elecrtric Cooperative	Wm. Schantz / CP Yegen	4/9/1954	Book 308, Page 3	Blanket transmission or distribution line easement across the NW1/4 Sec. 13 and SW1/4 Sec. 13. No width defined in abstract.
11	Easement	City of Bismarck	Randall Ross Boyd and Charlette L. Boyd	2/23/1950	Book 274, Page 504	40' Easement for a drainage ditch over the NW1/4 Sec. 24
12	Easement	City of Bismarck	Eugene Wachter	2/27/1950	Book 274, Page 505	60' Easement for a drainage ditch over the S1/2 Sec. 14
13	Easement	Montana-Dakota Utilities Co.	Oscar T. Solberg and Grace D. Sloberg	5/13/1958	Book 326, Page 162	10' Easement for a gas pipe line over the W1/2 of Sec. 23
14	Easement	United States of America	Oscar T. Solberg and Grace D. Sloberg	8/15/1958	Book 326, Page 274	50' Easement for utility lines and access road across the East 50' of the SE1/4 of the SE1/4 of the SW1/4 of Sec. 23
15	Easement	Capital Electric Cooperative	Oscar T. Solberg	3/25/1959	Book 308, Page 81	Blanket right-of-way easement for a transmission line across Sec. 23. No width defined in abstract.
16	Easement	Capital Elecrtric Cooperative	Dan J. McDonald	3/23/1961	Book 308, Page 106	Blanket right-of-way easement for a transmission line across Sec. 22. No width defined in abstract.
17	Permit	Northwestern Bell Telephone Company	City of Bismrack	10/20/1961	Book 349, Page 161	Permit for the perpetual right to construct telephone lines located approx. 42' north of the south line of the SE1/4 of the SW1/4 of the S1/2 of the SE1/4 Sec. ?- No width or Sec. # defined in abstract.
18	Easement	Montana-Dakota Utilities Co.	Oscar T. Solberg and Grace D. Sloberg	2/23/1962	Book 328, Page 372	50' and 14' easement for gas pipeline over part of Sec. 23
19	Permit	Northwestern Bell Telephone Company	Helen Wachter	6/215/1962	Book 349, Page 454	Permit for the perpetual right to construct telephone lines located approx. 42' north of the south line of the SW1/4 of the SW1/4 of Sec. 14- No width defined in abstract.
20	Easement	City of Bismarck	Wachter Real Estate Trust	5/13/1963	Book 359, Page 311	66' Easement for roadway across the North 66' of the NE1/4 of the SE1/4 Sec. 10
21	Easement	Capital Electric Cooperative, Inc.	Wachter Ranch	3/4/1965	Book 308, Page 178	Blanket easement for transmission line over the NW1/4 Sec. 14. No width defined in abstract.
22	Easement	Capital Elecrtric Cooperative	Harley B. Thom	3/1/1966	Doc. No. 213810	Blanket easement for transmission line over the NW1/4 Sec. 13. No width defined in abstract.
23	Easement	Capital Elecrtric Cooperative	Northern Improvement Company	3/1/1966	Doc. No. 213809	Blanket easement for transmission line over the N1/2 of the SW1/4 Sec. 10. No width defined in abstract.
24	Easement	Montana-Dakota Utilities Co.	City of Bismarck	10/23/1967	Doc. No. 221331 & 221493	12' easement for underground electric line in the S1/2 of the SE1/4 of Sec. 14
25	Easement	Northwestern Bell Telephone Company	Dan J. McDonald	9/9/1970	Doc. No. 234829	Blanket easement across the N1/2 N1/2 Sec. 22. No width defined in abstract.
26	Easement	United Tribes of ND Development Corp	City of Bismarck	2/25/1974	Doc. No. 253804	100' x 100' easement for storm water system in the SW1/4 of Sec. 14
27	Right-of-Way Plat	Public	City of Bismarck	12/23/1974	Doc. No. 259922	Grant for highway purposes over the N1/2 of the SW1/4 Sec. 10
28	Easement	Public	City of Bismarck	1/24/1978	Doc. No. 287748	Easement for street and highway purposes over the N1/2 & NE1/4 Sec. 23
29	Easement	Public	City of Bismarck	1/24/1978	Doc. No. 287749	80' easement for water and sewer purposes over the NE1/4 of Sec. 23
30	Easement	Montana-Dakota Utilities Co. and Northwestern Bell Telephone Company	City of Bismarck	12/20/1978	Doc. No. 299399	Multiple easments with multiple widths for underground stilities over part of Sec. 23
31	Easement	Capital Electric Cooperative	City of Bismarck	12/20/1978	Doc. No. 299400	40' easement for transmission line over the E1/2 Sec. 23
32	Easement	Northwestern Bell Telephone Company	Chris Yegen	4/2/1981	Doc. No. 320698	10' blanket easement for tehlphone line in part of the S1/2 of the SW1/4 Sec. 13
33	Plat	Public/City of Bismarck	Lazy S Ranch/ McCormick Propoerties/ City of Bismarck	4/27/1981	Doc. No. 321299	Plat of Shamrock Industrial Park located in the W1/2 Sec. 10
34	Easement	Capital Elecrtric Cooperative	City of Bismarck	1/22/1982	Doc. No. 327336	Multiple 10' wide easements in Sec. 10, 11 & 14
35	Right-of-Way Plat	Burleigh County	Public	6/20/1986	Doc. No. 370663	Right-of-Way plat over the SW1/4 Sec. 13
36	Quit Claim Deed	Public	City of Bismarck	1/2/1987	Doc. No. 376844	Quit Claim Deed for public right-of-way for part of the S1/2 Sec. 12
37	Easement	Capital Electric Cooperative	City of Bismarck	7/23/1986	Doc. No. 371696	14' wide easement for transmission line over part of Sec. 23
38	Easement	Northwestern Bell Telehone Company	City of Bismarck	11/18/1986	Doc. No. 375392	10' wide easement for underground utility over part of the N1/2 Sec. 23
39	Easement	Montana Dakota Utilities	City of Bismarck	11/20/1986	Doc. No. 375446	10' wide easement for underground utility over part of the N1/2 Sec. 23
40	Easement	US West Communication	City of Bismarck	10/10/1995	Doc. No. 477381	10' wide easement for telecommunicaiton facilities in part of Sec. 12 (AMENDED)
41	Easement	US West Communications, Inc.; Montana-Dakota Utilities Co. and Sioux Fals Cable Television	City of Bismarck	10/27/1995	Doc. No. 478036	25' and a 40' wide easement over the part of the NW1/4 of the SW1/4 Sec. 11
42	Easement Agreement	US West Communications, Inc.; Montana-Dakota Utilities Co. and Sioux Fals Cable Television	City of Bismarck	4/30/1996	Doc. No. 483929	Easement agreement for a 15' wide strip to construct utilities in part of the N1/2 of the SE1/4 and the NE1/4 of the SW1/4 Sec. 10
43	Easement Agreement	Capital Elecrtric Cooperative	City of Bismarck	1/28/1997	Doc. No. 494074	30' easement for electrical facilities over part of the SW1/4 Sec. 10
44	Dedication	Public	City of Bismarck	5/28/1997	Doc. No. 497870	150' wide dedication to the public for public roadway over the W1/2 Sec. 13 and the SW1/4 Sec. 12
45	Easement Agreement	Capital Elecrtric Cooperative	City of Bismarck	12/29/1997	Unknown	20' easement agreement for electrical facilities over part the the NE1/4 Sec. 14, NW1/4 Sec. 13, SW1/4 Sec. 12 & SE1/4 Sec. 11
46	Easement Agreement	U. S. West Communications, Inc.	City of Bismarck	8/17/1999	Doc. No. 531711	10' easement for electrical facilities over the SE1/4 Sec. 14 and the NE1/4 Sec. 23
47	Easement	University of Mary	City of Bismarck	5/17/2002	Doc. No. 573617	Multiple width easements for utilities over Sec. 23
48	Easement	ND Department of Transportation	City of Bismarck	11/20/2002	Doc. No. 583717	Easement for public highway over part of the SW1/4 of Sec. 10
49	Easement Agreement	Montana-Dakota Utilities Company	City of Bismarck	4/3/2003	Doc. No. 592881	Easement agreement for two 10' strips for natural gas facilities over part of the NE1/4 of the SE1/4 Sec. 10
50	Easement Agreement	Montana-Dakota Utilities Company	City of Bismarck	4/3/2003	Doc. No. 592882	15' wide easement for utiliies located in part of Sec. 11, 12, 13 & 14
51	Right-of-Way Plat	Public	North Dakota Department of Transportation	6/6/2003	Doc. No. 598050	Right-of-Way plat for highway pruposed over part of the SE1/4 Sec. 22 and the SW1/4 Sec. 23
52	Easement Agreement	City of Linclon	City of Bismarck	8/31/2004	Doc. No. 624733	20' and 40' easement for watermain in part of Lots 1,3, &4 of Lincoln Outlots
53	Affidavit of Section Line Closure	Public	Burleigh County	8/8/2005	Doc. No. 641482	Affidavit of Section Line Closure to vacate the public ways between part of Sec. 15 & 22, Sec. 22 & 23, and Sec. 14 & 15
54	Easement Agreement	Montana Dakota Utilities	City of Bismarck	5/27/2006	Doc. No. 657061	10' easement agreement for fiber cable facilities through parts of Sec. 23, Sec. 14 & Sec. 15
55	Easement	City of Bismarck	City of Bismarck	3/1/2011	Doc. No. 741493	42' easement for street and highway over part of Lot 1, Block 17 of Bismarck Airport Addition
56	Easement	City of Bismarck	City of Bismarck	3/1/2011	Doc. No. 741492	42' easement for street and highway over part of Lot 1, Block 16 of Bismarck Airport Addition
57	Easement Agreement	Montana Dakota Utilities Co.	City of Bismarck	1/21/2011	Doc. No. 739746	10' wide easement for fiber cable facilities over part of the NE1/4 Sec. 23
58	Plat	Public	City of Bismarck/ ND Association of Soil Conservation Districts	3/1/2011	Doc. No. 741481	Plat of Bismarck Airport Addition
59	Easement Agreement	Capital Elecrtric Cooperative	City of Bismarck	8/3/2011	Doc. No. 748532	40' and 15' easement for ungerground electric facilities over Lots 2 & 3 of Block 17 of Bismarck Airport Addition
60	Easement	Northern Metals, LLC	City of Bismarck	6/13/2013	Doc. No. 789127	80' easement for access over part of Lot 1, Block 1 Northern Plains Commerce Centre Addition & part of Lot 2, Block 1 of Bismarck Airport Addition
61	Easement	Capital Electric Cooperative	City of Bismarck	12/4/2013	Doc. No. 799114	20' easement for transmission line over part of the SW1/4 Sec. 23
62	Easement Agreement	Montana Dakota Utilities	City of Bismarck	3/10/2014	Doc. No. 803059	15' wide easement for electrical line located in part of Sec. 11, 12, 13 & 14 (same easement location as encumbrance 50)
63	Easement Agreement	Paramount Builders, Inc.	City of Bismarck	6/2/2014	Doc. No. 806759	20' wide easement for storm sewer located in part of Lot 2, Block 7, Bismarck Airport Addition
64	Easement Agreement	Montana Dakota Utilities & Quest Corporation	City of Bismarck	8/2/2018	Doc. No. 875431	Easement for utility lines located in part of Lots 1 & 62 of Block 1 of Bismarck Airport Addition
65	Easement Agreement	Montana Dakota Utilities & Quest Corporation	City of Bismarck	8/2/2018	Doc. No. 875432	Easement for utility lines located in part of Lot 1, 60, 61 & 62, of Block 1 of Bismarck Airport Addition.
66	Easement Agreement	State of North Dakota	City of Bismarck	2/20/2018	Doc. No. 868655	Release and reassignes a 50' easement for storm sewer purposed in part of Lot 1, Block 1 of Bismarck Airport Addition

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CITY OF BISMARCK
BISMARCK AIRPORT LAYOUT PLAN

2301 UNIVERSITY DR., BISMARCK, ND 58504

ISSUED

NOT FOR CONSTRUCTION

M&H PROJECT: 2716000-140293.01
AIP NO.: 3-38-003-055-2015
DATE: JAN 2019
DESIGNED BY: M&H
DRAWN BY: JWB
CHECKED BY: MRB
DO NOT SCALE DRAWINGS

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AIRPORT PROPERTY MAP - EXHIBIT 'A' EASEMENT TABLE

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